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MIL-HDBK-2097A 25 July 1997 SUPERSEDING MIL-STD-2097A 2 June 1989

DEPARTMENT OF DEFENSE HANDBOOK

ACQUISITION OF SUPPORT EQUIPMENT AND ASSOCIATED INTEGRATED LOGISTICS SUPPORT



This Handbook is for guidance only. Do not cite this document as a requirement.

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FOREWORD

- 1. This military standard is approved for use by all departments and agencies of the Department of Defense (DOD).
- 2. This standard is to be used by contractor and acquiring activities in the identification, selection, production, distribution, and integrated logistic support (ILS) of support equipment (SE). It has equal utility whether applied during the concept exploration, demonstration and validation, full-scale development, or production and deployment phases of the end article's life cycle.
- 3. In concert with DOD policy and practices to streamline Government and contractor efforts throughout the acquisition process, Appendix A provides a tailored reference, by paragraph, to key information.
- 4. Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Naval Air Engineering Center, Systems Engineering and Standardization Department, Code 53, Lakehurst, New Jersey 08733-5100, by using the self-addressed Standardization Document Improvement Proposal (DD form 1426) appearing at the end of this document or by letter.

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1. SCOPE

1.1. <u>Scope</u>. This standard prescribes the requirements for the identification of common and peculiar support equipment for aerospace weapons systems, subsystems, or major end articles.

This standard also presents the procedures for the acquisition of end items, associated ILS and related technical data for system(s) peculiar SE.

2. REFERENCED DOCUMENTS

2.1 Government documents.

2.1.1 <u>Specifications</u>, <u>standards</u>, <u>and handbooks</u>. The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation (see 2.4-1).

SPECIFICATIONS

and Water-vaporproof. MIL-S-5944 - Slings, Aircraft, General Specification for. MIL-E-6051 - Electromagnetic Compatibility Requirements, Systems. MIL-I-6870 - Inspection Program Requirements, Nondestructive for Aircraft and Missile Materials and Parts. MIL-L-7976 - List and Card, Technical Manual Data, for Contractor Furnished Equipment and Accessories. MIL-S-8512 - Support Equipment, Aeronautical, Special, General Specification for the Design of. MIL-P-9024 - Packaging, Materials Handling and Transportability, System and System Segments, General Specification for. MIL-Q-9858 - Quality Program Requirements. MIL-P-15024 - Plates, Tags, and Bands for Identification of Equipment. MIL-D-18300 - Design Data Requirements for Avionic Equipment. MIL-T-18303 - Test Procedures, Reproduction, Acceptance, and Life for Aircraft Electronic	DOD-D-1000	-	Drawing, Engineering and Associated List.
for. MIL-E-6051 - Electromagnetic Compatibility Requirements, Systems. MIL-I-6870 - Inspection Program Requirements, Nondestructive for Aircraft and Missile Materials and Parts. MIL-L-7976 - List and Card, Technical Manual Data, for Contractor Furnished Equipment and Accessories. MIL-S-8512 - Support Equipment, Aeronautical, Special, General Specification for the Design of. MIL-P-9024 - Packaging, Materials Handling and Transportability, System and System Segments, General Specification for. MIL-Q-9858 - Quality Program Requirements. MIL-P-15024 - Plates, Tags, and Bands for Identification of Equipment. MIL-D-18300 - Design Data Requirements for Avionic Equipment. MIL-T-18303 - Test Procedures, Reproduction, Acceptance, and Life for Aircraft Electronic	MIL-C-4150	-	Case, Transit and Storage, Waterproof and Water-vaporproof.
ments, Systems. MIL-I-6870 - Inspection Program Requirements, Non-destructive for Aircraft and Missile Materials and Parts. MIL-L-7976 - List and Card, Technical Manual Data, for Contractor Furnished Equipment and Accessories. MIL-S-8512 - Support Equipment, Aeronautical, Special, General Specification for the Design of. MIL-P-9024 - Packaging, Materials Handling and Transportability, System and System Segments, General Specification for. MIL-Q-9858 - Quality Program Requirements. MIL-P-15024 - Plates, Tags, and Bands for Identification of Equipment. MIL-D-18300 - Design Data Requirements for Avionic Equipment. MIL-T-18303 - Test Procedures, Reproduction, Acceptance, and Life for Aircraft Electronic	MIL-S-5944	-	
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for Contractor Furnished Equipment and Accessories. MIL-S-8512 - Support Equipment, Aeronautical, Special, General Specification for the Design of. MIL-P-9024 - Packaging, Materials Handling and Transportability, System and System Segments, General Specification for. MIL-Q-9858 - Quality Program Requirements. MIL-P-15024 - Plates, Tags, and Bands for Identification of Equipment. MIL-D-18300 - Design Data Requirements for Avionic Equipment. MIL-T-18303 - Test Procedures, Reproduction, Acceptance, and Life for Aircraft Electronic	MIL-I-6870	-	destructive for Aircraft and Missile
General Specification for the Design of. MIL-P-9024 - Packaging, Materials Handling and Transportability, System and System Segments, General Specification for. MIL-Q-9858 - Quality Program Requirements. MIL-P-15024 - Plates, Tags, and Bands for Identification of Equipment. MIL-D-18300 - Design Data Requirements for Avionic Equipment. MIL-T-18303 - Test Procedures, Reproduction, Acceptance, and Life for Aircraft Electronic	MIL-L-7976	-	for Contractor Furnished Equipment and
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tion of Equipment. MIL-D-18300 - Design Data Requirements for Avionic Equipment. MIL-T-18303 - Test Procedures, Reproduction, Acceptance, and Life for Aircraft Electronic	MIL-Q-9858	-	Quality Program Requirements.
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	MIL-T-18303	-	tance, and Life for Aircraft Electronic

SPECIFICATIONS (Continued)

	MIL+N-18307	-	Nomenclature and Identification for Aeronautical Systems Including Joint Electronics Type Designated Systems and Associated Support Systems.
	MIL-D-23140	-	Drawings, Installation Control for Ship- board Electronic Equipment.
	MIL-M-23618	-	Manual, Technical, Periodic Maintenance Requirements, Preparation of.
	MIL-T-28800	- ,	Test Equipment for Use With Electrical and Electronic Equipment, General Specification for.
	MIL-M-38510	_	Microcircuit, General Specification for.
	MIL-M-38784	-	Manual, Technical, General Style and Format Requirements.
	MIL-P-38790	-	Printing Production of Technical Man- uals, General Requirements for
	MIL-I-45208	-	Inspection System Requirements.
	MIL-M-63036	-	Manual, Technical: Operators, Prepara- tion of.
	MIL-M-63038	-	Manual, Technical: Organization or Aviation Unit, Direct Support or Aviation Intermediate, and General Support Maintenance.
	MIL-M-81919	-	Manual, Technical, Support Equipment, Preparation of.
•	MIL-M-81927	-	Manual, Technical, General Style and Format of (Work Package Concept).
	MIL-M-81929	-	Manual, Technical, Illustrated Parts Breakdown (Work Package Concept), Preparation of.
	MIL-D-81992	_	Directives, Technical, Preparation of.
	MIL-M-85337	- .	Manual, Technical, Quality Assurance Program, Requirements for.

STANDARDS

MIL-STD-12	-	Abbreviations for Use on Drawings, Spec- ifications, Standards, and in Technical Documents.
DOD-STD-100	-	Engineering Drawing Practices.
MIL-STD-129	-	Marking for Shipment and Storage.
MIL-STD-130	, -	Identification Marking of U.S. Military Property.
MIL-STD-196	-	Joint Electronics Type Designation System.
MIL-STD-280	-	Definitions of Item Levels, Item Exchangeability, Models, and Related Terms.
MIL-STD-335	-	Manuals, Technical: Repair Parts and Special Tools List.
MIL-STD-461	-	Electromagnetic Emission and Susceptibility Requirements for the Control of Electromagnetic Interference.
MIL-STD-470	-	Maintainability Program Requirements (for Systems and Equipments).
MIL-STD-471	~	Maintainability Demonstration.
. MIL-STD-480	-	Configuration Control - Engineering Changes, Deviations and Waivers.
MIL-STD-481	-	Configuration Control - Engineering Changes (Short Form), Deviations and Waivers.
MIL-STD-483	-	Configuration Management Practices for Systems, Equipment, Munitions, and Computer Programs.
MIL-STD-490	-	Specification Practices.
MIL-STD-648	-	Design Criteria for Specialized Shipping Containers.
MIL-STD-680	-	Contractor Standardization Program Requirements.

STANDARDS (Continued)

MIL-STD-721	-	Definitions of Effectiveness Terms for Reliability, Maintainability, Human Factors, and Safety.
MIL-SYD-756	-	Reliability Modeling and Prediction.
MIL-STD-780	•	Work Unit Codes for Aeronautical Equip- ment, Uniform Numbering System
MIL-STD-781	•	Reliability Testing for Engineering De- velopment, Qualification, and Production.
MIL-STD-785	-	Reliability Program for Systems and Equipment Development and Production.
MIL-STD-789	-	Contractor Technical Information Coding of Replenishment Parts.
MIL-STD-808	-	Finish, Materials, and Processes for Corrosion Prevention and Control in Support Equipment.
MIL-STD-810	-	Environmental Test Methods and Engineer- ing Guidelines.
MIL-STD-831	-	Test Reports, Preparation of.
MIL-STD-847	-	Scientific and Technical Reports Pre- pared By or For the Department of De- fense, Format Requirements for.
MIL-STD-864	-	Support Equipment Functional Classifi- cation Categories.
MIL-STD-875	-	Type Designation System for Aeronautical and Support Equipment.
MIL-STD-882	-	System Safety Program Requirements.
MIL-STD-961	-	Military Specification and Associated Documents, Preparation of.
MIL-STD-965	-	Parts Control Program.
MIL-STD-970	- .	Standards and Specifications, Order of Preference for the Selection of,

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MIL-STD-1189	-	Bar Code Symbology, Standard Department of Defense.
MIL-STD-1309	-	Definitions of Terms for Test, Measure- ment, and Diagnostic Equipment.
MIL-STD-1364	-	Standard General Purpose Electronic Test Equipment. •
MIL-STD-1365	-	General Design Criteria for Handling Equipment Associated with Weapons and Related Items.
MIL-STD-1367	-	Packaging, Handling, Storage, and Trans- portability Program Requirements (For Systems and Equipments).
MIL-STD-1378	-	Requirements for Employing Standard Electronic Modules.
MIL-STD-1379	-	Contract Training Programs.
MIL-STD-1388-1		Logistic Support Analysis.
MIL-STD-1388-2	-	Logistic Support Analysis Record, DOD Requirements for
MIL-STD-1390	-	Level of Repair.
DOD-STD-1399	. •	Interface Standard for Shipboard Systems.
MIL-STD-1456	`-	Contractor Configuration Management Plans.
MIL-STD-1472	-	Human Engineering Design Criteria for Military Systems, Equipment and Facilities.
MIL-STD-1519	-	Test Requirements Document, Preparation of.
MIL-STD-1520	-	Corrective Action and Disposition System for Nonconforming Material.
MIL-STD-1521	-	Technical Reviews and Audits for Systems, Equipments, and Computer Software.

STANDARDS (Continued)

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MIL-STD-1528	-	Manufacturing Management Program.
MIL-STD-1535	, -	Supplier Quality Assurance Program Requirements.
MIL-STD-1556	-	Government/Industry Data Exchange Program Contractor Participation Requirements.
MIL-STD-1561	-	Provisioning Procedures, Uniform DOD.
MIL-STD-1567	-	Work Measurement.
MIL-STD-1568	-	Materials and Processes for Corrosion Prevention and Control in Aerospace Weapons Systems.
MIL-STD-1574	-	System Safety Program for Space and Missile Systems.
MIL-STD-1629	•	Procedures for Performing a Failure Mode, Effects, and Criticality Analysis.
MIL-STD-1653	-	Power Cable Assemblies.
MIL-STD-1686	-	Electrostatic Discharge Control Program.
MIL-STD-1815	-	ADA Programming Language (ANSI/MIL-STD- 1815A-1983)
MIL-STD-1839	-	Calibration and Measurement Requirements.
MIL-STD-2073-1	-	DOD Materiel Procedures for Development and Application of Packaging Requirements.
MIL-STD-2074	-	Failure Classification for Reliability Testing.
MIL-STD-2076	-	Unit Under Test Compatibility With Auto- matic Test Equipment, General Require- ments for.
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MIL-STD-2084	-	General Requirements for Maintainability of Avionic and Electronic Systems and Equipment.
MIL-STD-2096	_	Microcircuit Data Requirements.
MIL-STD-2165	-	Testability Program for Electronic System and Equipment.
DOD-STD-2167	-	Defense Systems Software Development.
MIL-STD-2173	-	Reliability-Centered Maintenance Requirements for Naval Aircraft, Weapons Systems and Support Equipment.
MIL-STD-8512	-	Support Equipment Aeronautical Special General Specification for the Design of.
MIL-STD-45662	-	Calibration~System Requirements.
HANDBOOKS		
MILITARY		
MIL-HDBK-217	-	Reliability Prediction of Electronic Equipment.
MIL-HDBK-235	-	Electromagnetic (Radiated) Environment Considerations for Design and Procurement of Electrical and Electronic Equipment Subsystems and Systems Part 1A - validated March 1979.
MIL-HDBK-248	-	Guide for Application and Tailoring of Requirements.
MIL-HDBK-265	-	Standard General Purpose Electronic Test Equipment Support Items.
MIL-HDBK-300	-	Technical Information File of Support Equipment (Available in Microfiche [24] (Only).
MIL-HD8K-472	-	Maintainability Prediction.
MIL-HDBK-63038-1	_	Technical Manual Writing Handbook.
MIL-HDBK-63038-2	-	Technical Manual Writing Style Guide.

(Unless otherwise indicated, copies of federal and military specifications, standards, and handbooks are available from the Naval Publications and Forms Center, (ATTN: NPCDS), 5801 Tabor Avenue, Philadelphia, PA 19120-5099.)

2.1.2 Other Government documents, drawings, and publications. The following other Government documents, drawings, and publications form a part of this document to the extent specified herein. Unless otherwise specified, the issues are those in effect on the date of the solicitation (see 2.4.2).

DOD 4100.38-M	-	Department of Defense Provisioning and Other Preprocurement Screening Manual.
NAVMATINST (ASN (S&L)(R&M&QA)) 4855.10	-	Contractual Manufacturing Requirements.
NAVAIR AD 1115	-	Electromagnetic Compatibility Design Guide for Avionics and Related Ground Support Equipment.
NAVAIR AD 1350	-	Engineering Drawings and Associated Data.
NAVAIR 00-35QG-16	-	Allowance List of Consumable Common General Support Equipment for All Types, Classes, Models of Aircraft
NAVAIR 16-1-525	-	Avionics Preferred Common Ground Support Equipment.
NAVAIR 17-1-126	-	Standard Configuration of Electrical In- put Power Cables for Avionics Test Equipment.
NAVAIR 19-1-127	-	Non-Avionics Preferred Common Ground Support Equipment.
CATALOGING HDBK-H6	•	federal Item Name Directory (FIND) for Supply Cataloging.
DA PAM 700-21	-	TMDE Register.
DA PAM 700-21-1		TMDE Preferred Items List.
DA PAM 738-751	-	Functional Users Manual for the Army Maintenance Management System - Aviation.

(Copies of other Government documents required by contractors in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting activity.)

2.2 Non-Government publications. The following documents form a part of this document to the extent specified herein. Unless otherwise specified, the issues of the documents which are DOD adopted are those listed in the issue of the DODISS specified in the solicitation. Unless otherwise specified, the issues of documents not listed in the DODISS are the issue of the non-Government documents which are current on the date of the solicitation (see 2.4.3).

INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS, INC.

IEEE-STD-200-75	-	Electrical and Electronic Parts and Equipments, Reference Designation for 4 Sep 75 with correction sheet Feb 76.
IEEE-STD-315A-86	-	Graphic Symbols for Electrical and Electronics Diagrams 12 Sep 85.
1EEE-STD-716-82	-	C/Atlas Test Language 18 Dec 81.
1EEE-STD-771-84	_	Atlas, Guide to the Use of.

(Application for copies should be addressed to the Institute of Electrical and Electronics Engineers, Incorporated, 445 Hoes Lane, Piscataway, New Jersey 08854.)

2.3 Order of precedence. In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. DEFINITIONS

- 3.1 <u>Definition of terms</u>. For the purpose of this standard, the following definitions are as defined. Other terms, abbreviations and acronyms used are defined in MIL-STD-280, MIL-STD-721, or as specified herein.
- 3.1.1 Acquiring activity. The activity that is assigned the responsibility for acquiring or providing the equipment, supplies, or services. Acquiring activities are commands such as the Naval Air Systems Command (NAVAIR), the Army Aviation Systems Command (AVSCOM), and the Air Force Systems Command (AFSC). The acquiring activity is not used in lieu of the ordering activity, but may be the same as the requiring activity.
- 3.1.2 Acquisition. The process consisting of planning, designing, producing, and distributing a weapon system/equipment. Acquisition in this sense includes the concept exploration/definition, demonstration/validation, full-scale development, production, and operations support phases of the weapon systems/equipment project.
- 3.1.3 Acquisition streamlining. Any action that results in more efficient and effective use of resources to develop, produce, and deploy quality defense systems and products. This includes ensuring that only cost-effective requirements are included, at the most appropriate time, in system and equipment solicitations and contracts.
- 3.1.4 Administrative Contracting Officer (ACO). The representative of the Government located at, or having responsibility for, the contractor facility for contract administration purposes.
- 3.1.5 Approving authority. The activity having technical approval for specific requirements/items. The approving authority may also generate a demand through the contracting officer.
- 3.1.6 <u>Automatic Test Equipment (ATE)</u>. A generic term for equipment (separate or built-in) satisfying a test function (diagnostic or condition indicating) and possessing an automatic capability. In this sense, ATE can be either a part of the mission equipment or it can be a part of support equipment (see MIL-STD-1309).
- 3.1.7 <u>Common Support Equipment (CSE)</u>. A SE type that is designed for a wide-range of applications and usually exists in the normal SE inventory.
- 3.1.8 <u>Contract Data Requirements List (CDRL)</u>. Contract form (DD 1423) listing all DIDs selected from an authorized data list required to be delivered under the contract. Tells contractor what data to deliver.
- 3.1.9 <u>Contractor-Furnished Equipment (CFE)</u>. An item manufactured or purchased by the contractor for inclusion in, or support of, the system or equipment.

- 3.1.10 Designated Procuring Activity (DPA). A field activity that supports the acquiring activity in the planning, development, procurement, and logistics support of SE as specifically directed. DPAs include activities such as the Naval Air Engineering Center (NAVAIRENGCEN), Naval Avionics Center (NAVAVIONICSCEN), Pacific Missile Test Center (PACMISTESTCEN), and the Naval Air Technical Services Facility (NAVAIRTECHSERVFAC).
- 3.1.11 <u>Development activity</u>. The field activity assigned or contractor selected by the acquiring activity to develop a system/equipment.
- 3.1.12 <u>End article</u>. The end weapon, aircraft system, component, or equipment being procured on the contract. This includes all contractor-furnished systems, components, assemblies, subassemblies, and parts therein.
- 3.1.13 End Item Specification (EIS). A contractor-prepared specification describing performance and design criteria of the system/equipment or supporting elements therein.
- 3.1.14 Government-Furnished Equipment (GFE). Equipment that has been selected and is to be furnished by the Government to a contractor or Government activity for installation in, use with, or in support of, systems during production, conversion, modification, or operation.
- 3.1.15 <u>Integrated Logistic Support</u>. A composite of all considerations necessary to assure the effective and economical support of a system for its life cycle. It is an integral part of all other aspects of system acquisition and operation. ILS is characterized by harmony, and coherence among all the logistic elements.
- 3.1.16 <u>ILS Detail Specification (ILSDS)</u>. A document that specifies the ILS performance requirements that shall be met by the contractor. It identifies the specific requirements governing the development, test, evaluation, and production of the ILS for end article or SE end item. The ILSDS is prepared by the Government, is provided with the Request for Proposal (RFP), and serves as a basis for negotiating the ILS portion of the contract.
- 3.1.17 <u>Initial order</u>. An order for a specified quantity of breadboard, prototype, or production-type SE required for developmental test or evaluation, or for the support of the end article project.
- 3.1.18 Life Cycle Cost. The total cost to the Government of acquisition and ownership of that system over its useful life. It includes the cost of development, acquisition, support, and where applicable, disposal.
- 3.1.19 Logistic Support Analysis (LSA) process. A systematic and comprehensive analysis conducted on an iterative basis through all phases of the system/equipment life cycle by which the supportability objectives are identified and satisfied. The level of detail of the analyses and the timing of task performance is tailored to each system/equipment and is responsive to program schedules and milestones.
- 3.1.20 Logistic Support Analysis Record (LSAR). The data (as defined by MIL-STD-1388-2) generated as a result of performing MIL-STD-1388-1 tasks 205, 301, 401, and 501.

- 3.1.21 Maintenance Plan (MP). The plan for maintaining a particular system/equipment or SE end item. It is a concise narrative that identifies the source, maintenance, and recoverability (SM&R) codes, and the repair, removal, and attrition rates for each repairable. It identifies the system/equipment or SE end item maintenance requirements and their associated SE hardware requirements.
- 3.1.22 Mission Equipment (ME). Any item which is a functional part of a system or subsystem that is required to perform mission operations. / It includes items such as aircraft radios, missile launching mechanisms, engines, constant speed drives, munitions pylons, command-and-control displays and radar sets.
- 3.1.23 Ordering Activity (OA). The activity authorized to obligate the Government to acquire SE and/or related materials and services. This is normally the contracting officer.
- 3.1.24 Peculiar Support Equipment (PSE). A SE type that is unique and is designated for use with a specific equipment or equipment family.
- 3.1.25 Preferred Item. An item not specifically developed or acquired to fulfill multiple using service requirements, but which has been later identified by the cognizant equipment development or buying activity as having that potential; includes both inventory items and items under development.
- 3.1.26 <u>Procuring Contracting Officer (PCO)</u>. The Government representative located at the purchasing office who is responsible for all facets of contracting up to and through contract award. The PCO normally assigns an ACO to monitor contractor performance and perform specifically defined duties subsequent to contract award.
- 3.1.27 Program Support Inventory Control Point (PSICP). An organizational unit or activity within a DOD supply system which is assigned the primary responsibility for the material management of a group of items, either for a particular service or for the Defense Department as a whole. Material inventory management includes cataloging direction, requirements computation, procurement direction, distribution management, disposal direction, and general rebuild direction.
- 3.1.28 Requiring activity. The activity originating a requisition or purchase request for equipment, supplies, or services (not used in lieu of OA. but may be the same as the acquiring activity).
- 3.1.29 Standard Item. An item specifically developed or acquired to fulfill multiple use requirements, which has been formally designated a standard item by the using service's headquarters; includes both inventory items and Items under development.
- 3.1.30 Support Equipment (SE). All equipment required to make a weapon system, command and control system, support system, subsystem, or item of SE operational in its intended environment. This includes all equipment required

to install, launch, arrest (except Navy shipboard and shore-based launching and arresting equipment), guide, control, direct, inspect, test, adjust, calibrate, appraise, gauge, measure, assemble, disassemble, handle, transport, safeguard, store, actuate, service, repair, overhaul, maintain, operate, arm, or rearm the system, subsystem, end item, or component. This definition applies regardless of the method of development, funding, or procurement. SE may be categorized as common (general-purpose) and peculiar (special-purpose); within these categories, developmental (no Government-approved specification/drawing) and standard (with Government-approved specification/drawing) subcategories may exist. The following equipment is excluded from the definition of support equipment:

a. Common powered and unpowered hand tools.

b. Housekeeping items.

- c. Office furniture and equipment and items common to all activities defined in applicable allowance lists that are required as indirect support.
- d. Common production tools and tooling such as lathes, drills, presses, plating equipment, grinders, and induction heaters.

e. Items used only by the contractor.

- f. Personal equipment (e.g., headsets, microphones).
- g. Off-line automatic data processing (ADP) equipment.
- 3.1.31 <u>SE critical item</u>. An item of SE for which the period of time, cost, safety, or state of the art required to obtain it makes meeting contractual end article delivery schedules, or the need date, a critical factor. SE critical items are afforded special management attention.
- 3.1.32 <u>SE end item</u>. A unit of SE that is complete within itself and performs a desired function.
- 3.1.33 Support Equipment Recommendation Data (SERD). The SERD is the contractor's recommendation for SE to support the contract end article. SERDs required by this standard are recorded in several parts. These parts provide key narrative and quantitative data used to propose and validate SE needs. Narrative approach is used with engineering data that support the contractor's description of a function requiring support together with a recommended means to satisfy this need. Quantitative methods are also used to provide availability, logistics support, and acquisition—type data regarding the item of SE being recommended. The total SERD is intended to support overall systems management action for SE development, acquisition, and optimum standardization within and among systems.
- 3.1.34 <u>Sustaining engineering</u>. Engineering support and related services that include tasks such as customer liaison concerning new equipment performance, schedules, quality deficiency reports, field service reports, beneficial suggestions and demonstrations; investigation and resolution of equipment problems using laboratory analysis where necessary; participation in SE program implementation reviews that focus on technical approach and outfitting sites; preparation and submission of SERDs; checking GFE for compatibility with the aircraft system or subsystem it supports; and reviewing SE for changes and submitting support peculiar change proposals and configuration management data.

3.1.35 Type Equipment Code (TEC). A four-character alpha or alphanumeric descriptive code used to identify an end item in the Maintenance Data Collection Subsystem (MDCS) by its application to the specific type/model/series of aircraft (e.g., AV-8B, P-3C) or equipment (e.g., AGM 12 missile, J52 engine) that it supports. TECs may also be assigned by category of equipment supported (e.g., communication, navigation). In these cases, TECs will conform as closely as possible to work unit code (WUC) groupings as described below.

NOTE (Air Force): The Standard Reporting Designator (SRD) code, when it exists, may be provided to the contractor to be entered in the LSAR as the TEC.

- 3.1.36 Test Bench Installation (TBI). Those Weapon Replaceable Assemblies (WRAs)/Line Replacement Units (LRUs) installed in a test bench harness/test set/test console which are required to simulate (hot mock-up) in a maintenance shop a system, assembly, or component of the end article for the purpose of accomplishing all necessary operational maintenance test and repair procedures.
- 3.1.37 Work Unit Code (NUC). A three-, five-, or seven-character alphanumeric code assigned to an end item and repairable assemblies, subassemblies, and components and critical consumables of an end item. A NUC identifies the category of system being supported (e.g., landing gear, flight controls, radar) and provides a component breakdown within an end item. It must be identified when any type of maintenance data is reported under MDCS. MUC structure is provided in MIL-STD-780.
- 3.2 <u>Definitions of abbreviations and acronyms used in this standard</u>. The abbreviations and acronyms used in this military standard are defined as follows:

a.	ACO	-	Administrative Contracting Officer
b.	AFSC	-	Air Force Systems Command
Ċ.	AF SIL/PIL	*	Air Force Standard Items List/Preferred Items List
ď.	AMSDL	-	Acquisition Management Systems and Data Requirements Control List
e.	ATE	~	Automatic Test Equipment
f.	AVSCOM	-	Army Aviation Systems Command
g,	CCDR	~	Contractor Cost Data Reporting
h.	CDRL	~	Contract Data Requirements List (DD Form 1423)
i.	CETS	_	Contractor Engineering and Technical Services
j.	CFE		Contractor-Furnished Equipment
ķ.	CM		Configuration Management
1.	CMRS	_	Calibration/Measurement Requirements Summary
m.	CPR/R		Component Pilot Rework/Repair
n.	CSE		Common Support Equipment
٥.	DCAS	~	Defense Contract Administration Service
p.	DID	-	Data Item Description
q.	DIDS	~	Defense Integrated Data System
r.	DPA	-	Designated Procuring Activity
S .	DODISS	~	Department of Defense Index of
			Specifications and Standards
t.	ECP		Engineering Change Proposal

	•		
ű.	EIS	- ,	End Item Specification
v.	EMC	-	Electromagnetic Compatibility
₩.	FAR	_	Federal Acquisition Regulations
х.	FAT	_	First Article Test
	FCI	_	Functional Configuration Identification
	FMECA	_	Failure Mode, Effects, and Criticality
2.	FMECA	_	Analysis
	F. 10.0		Facilities Requirements Document
	FRD	-	
	GFE	-	Government-Furnished Equipment
	G1DEP	_	Government-Industry Data Exchange Program
	GPETE	_	General Purpose Electronic Test Equipment
ae.	GSI	_	General Purpose Electronic Test Equipment
			Support Item
af.	ICP	-	Instrument Calibration Procedures
aq.	ILS	-	Integrated Logistics Support
	ILSDS	-	ILS Detail Specification
	ILSMT	_	Integrated Logistics Support Management Team
	ISP	_	Integrated Support Plan
	LORA	_	Level of Repair Analysis
	LRU	_	Line Replacement Unit
	LSA	-	Logistic Support Analysis
		_	Logistic Support Analysis Record
	LSAR		Logistic Support Analysis Record Data
ao.	LSARDSS	-	Selection Sheet
	LSMHT	~	List of Standard/Modified Hand Tools
	MDCS		Maintenance Data Collection System
	ME	~	Mission Equipment
as.	MILSTAMP	~	Military Standard Transportation and
			Movement Procedures
at.	MILSTRIP	~	Military Standard Requisitioning and Issue
			Procedures
aυ.	MIR		Master Index of Repairables
	MP	-	Maintenance Plan
	MRC	~	Maintenance Requirements Card
	NAVAIR	~	Naval Air Systems Command
	NAVAIRENGCEN	-	Naval Air Engineering Center
	NAVAIRTECH-		HOLDE HILL BUSINESS LINE TOWNS
۵Z.	SERVFAC	_	Naval Air Technical Services Facility
k =	NAVAVNDEP-	-	marat fill todinited octations that the
Dα.			
•	OPCEN-		Naval Aviation Depot Operations Center
	(NADOC)	-	naval Aviation pepot operations center
bb.	NAVAVNMAINT-		W 1 A. table. Waterbasen Affin
	OFF (NAMO)	-	Naval Aviation Maintenance Office
bc.	NSN	-	National Stock Number
bd.	. OA	-	Ordering Activity
be.	. PAT&E	-	Production Acceptance Test and Evaluation
	PACMISTESTCEN	-	Pacific Missile Test Center
	PCO	-	Procuring Contracting Officer
	PHS&T	_	Packaging, Handling, Storage, and
□ 11.	1144.1		Transportation
F4	. PPLI	_	Provisioning Parts List Index
		_	Provisioning Requirements Statement
	. PRS	-	
DK	. PSE	-	Peculiar Support Equipment

bl. PSEL bm. PSICP bm. PSICP brogram Support Inventory Control Point bn. PTD control provisioning Technical Documentation bo. QA control provisioning Technical Documentation bo. QA control provisioning Technical Documentation bo. QA control provisioning Technical Documentation bo. REA control provisioning Technical pocumentation bor. ROR control provisioning Technical List by. SECL control provisioning Technical List by. SECL control provisioning Technical List by. SMAR control provisioning Technical control provisioning control pr				
bn. PTD bo. QA Quality Assurance bp. RLA Remain Level Analysis bq. R&M Reliability and Maintainability br. ROR Repair of Repairables bs. SE Support Equipment bt. SECL Support Equipment Candidate List bu. SEI Support Equipment Illustration bv. SEID Support Equipment Installation Data bw. SERD Support Equipment Recommendation Data bw. SML Support Equipment Recommendation Data bx. SML Support Equipment Recommendation Data Support Equipment Agreement Plan commendation Support Equipment Code Support Equipment Recommendation Data Support Equipment Plan Commendation Data Commendation Data Commendation Data Commendation Technical Manual Data Card Commendation Data Commendation Commendation Data Commendation Commendation			-	Priced Support Equipment List
bo. QA bp. RLA Repair Level Analysis dq. R&M Repair of Repairables bs. SE Support Equipment bt. SECL Support Equipment Candidate List bu. SEI Support Equipment Illustration bv. SEID Support Equipment Installation Data bw. SERD Support Equipment Recommendation Data bw. SML Support Equipment Recommendation Data bx. SML Support Material List by. SM&R Source, Maintenance, and Recoverability bz. SON Statement of Work ca. SPTD Supplementary Provisioning Technical Documentation cb. SRA Shop Replaceable Assembly cc. SRD Standard Reporting Designator cd. SSPP System Safety Program Plan cf. TBI Test Bench Installation cg. TEC Turn—Around Time cf. TBI Test Bench Installation cg. TEC Type Equipment Code ch. TECHEVAL Technical Evaluation ci. TMC Technical Manual Contract Requirement ck. TMDC Technical Manual Data Card cl. TMDE Test, Measurement, and Diagnostic Equipment cm. TMDL Technical Manual Data List cn. TPS Test Program Set Training and Training Equipment Plan cp. WRA Weapons Replaceable Assembly	bm.	PSICP	-	Program Support Inventory Control Point
bp. RLA bq. R&M bq. R&M br. ROR bs. SE bs. Support Equipment bs. SECL bs. SEI bs. SEI bs. SEI bs. Support Equipment Candidate List bs. SEI bs. Support Equipment Illustration bs. SEI bs. Support Equipment Recommendation Data bs. SML bs. SML bs. SML bs. SML cs. SMC ca. SPTD cs. Support Equipment Recommendation Data bs. SML bs. SML cs. SMC cs. SMC cs. SMC cs. SPT cs. Support Equipment Recommendation Data bs. SML cs. SMC cs. SMC cs. Support Equipment Recommendation Data bs. SML cs. SMC cs. SMC cs. Support Equipment folion cs. SMC cs. SMC cs. Support Equipment folion cs. SMC cs. SMC cs. Support Equipment folion cs. SMC cs. SMC cs. Support Equipment and Recoverability bs. Support Equipment and Recoverability bs. SML cs. SMC cs.	bn.	PTD	-	Provisioning Technical Documentation
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bq. R&M			-	Repair Level Analysis
br. ROR bs. SE bs. SE csupport Equipment bt. SECL bu. SEI bv. SEID bv. SEID bw. SERD csupport Equipment Illustration bw. SERD csupport Equipment Installation Data bw. SERD csupport Equipment Recommendation Data bw. SML csupport Equipment Recommendation Data bx. SML csupport Equipment Recommendation Data csupport Equipment Plan csupport Equipment Plan csupport Equipment Illustration Data csupport Equipment Plan by. SEID csupport Equipment Illustration Data csupport Equipment Plan cy. SEID csupport Equipment Illustration Data csupport Equipment Plan cy. SEID csupport Equipment Illustration Data csupport Equipment Plan cy. SEID csupport Equipment Illustration Data csupport Equipment Plan cy. SEID csupport Equipment Illustration Data csupport Equipment Plan cy. SEID csupport Equipment Equipment Plan cy. Sellow. Sellow. Support Equipment			_	Reliability and Maintainability
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bu. SEID - Support Equipment Illustration bv. SEID - Support Equipment Installation Data bw. SERD - Support Equipment Recommendation Data bx. SML - Support Material List by. SM&R - Source, Maintenance, and Recoverability bz. SOW - Statement of Work ca. SPTD - Supplementary Provisioning Technical Documentation cb. SRA - Shop Replaceable Assembly cc. SRD - Standard Reporting Designator cd. SSPP - System Safety Program Plan ce. TAT - Turn-Around Time cf. TBI - Test Bench Installation cg. TEC - Type Equipment Code ch. TECHEVAL - Technical Evaluation ci. TM - Technical Manual cj. TMCR - Technical Manual Contract Requirement ck. TMDC - Technical Manual Data Card cl. TMDE - Test, Measurement, and Diagnostic Equipment cm. TMDL - Technical Manual Data List cm. TPS - Test Program Set co. TTEP - Training and Training Equipment Plan cp. WRA - Weapons Replaceable Assembly			_	
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4. GENERAL REQUIREMENTS

- 4.1 <u>Purpose</u>. It is intended that this standard clarify the SE identification process and establish the acquisition process for obtaining peculiar support equipment or modifications to existing support equipment and associated Integrated Logistics Support. The processes shall encompass all phases of the end article's and the end item's life cycle and related life-cycle management considerations.
- 4.2 <u>Program</u>. An acquisition program shall include either development or pro- curement of support equipment, or modifications to support equipment as well as supporting equipment, systems, projects, and studies.
- 4.3 <u>Requirements</u>. Program tasks shall be selected and tailored according to the <u>support</u> equipment acquisition phase (i.e., concept exploration/definition, demonstration/validation, full-scale development, production, operations support). These tasks shall be planned, integrated, and accomplished in conjunction with all other pertinent functions.

5. DETAILED REQUIREMENTS

- 5.1 Guidance conferences and initial information. The acquiring activity will establish firm dates for necessary conferences for the end article. The conference team will be composed of responsible Government and offeror or contractor representatives. The conference will be chaired by a representative of the acquiring activity. Types of conferences are discussed in the Federal Acquisition Regulations.
- 5.2 Acquisition of SE and SE ILS products. The goal of ILS is to achieve minimum life cycle costs while simultaneously achieving the desired operability goals. A key factor in accomplishing this goal is to structure the end article and associated SE LSA programs so that the system designers interface significantly with the logistics support elements to minimize the need for development of CSE and/or PSE. The purpose of this section of the standard is to establish guidelines for the contractor and the acquiring authority to determine the required SE and to obtain the required SE and SE ILS products. This standard is written primarily in the terms of PSE that will be acquired as part of a weapon system end item procurement. However, these same building blocks can be used in the determination of a need for and acquisition of CSE and CSE ILS products. For CSE the requirements will normally begin with paragraph 5.4.5.
- 5.3 Funding requirements and authorization. After execution of the contract, the contractor shall advise and confirm with the SE acquiring activity the funds estimated to be required for the engineering effort. Reguirements shall be shown separately and indicate the period to be covered for:
 - a. SE sustaining engineering/logistics management effort.

b. SE design, fabrication, and test effort.

c. Cost of providing engineering/logistics support data estimated by the contractor as required herein and as prescribed in the CDRL (DD Form 1423).

The SE acquiring activity will issue appropriate funding authorization documents to cover the services and data to be authorized.

5.4 SE recommendation process.

5.4.1 Support Equipment requirements/analysis strategy. Immediately upon receipt of a funding authorization, and in accordance with the CDRL, the contractor shall provide a report which details his strategy to involve support equipment engineers in the system engineering and LSA process. This is to ensure that the weapon system, subsystems or repairable component is/are designed to take full advantage of supportability enhancing features and eliminate, simplify or reduce the requirement for the use of external SE, minimizing turn-around time (TAT) for repair and operational performance verification of the weapon system, subsystem or end item. This report shall include specific target areas for involvement by SE engineers in trade-off studies, which shall be conducted as part of the systems engineering and LSA process, where potential exists for improved weapon system support through the elimination, simplification, or reduction of external SE.

- 5.4.1.1 SE strategy/program plans. The contractor shall outline candidate design tradeoff studies between performance and supportability/testability that have been or will be conducted at the system, subsystem or end article level to achieve design synthesis. The contractor shall give specific consideration to MIL-STD-2165, and submit a Testability Program Plan and implement the SE Plan and the SE Section of the Integrated Support Plan (ISP) to investigate requirements for SE by performing an LSA of the end article system, subsystem, or equipment as detailed in the Government-approved Logistic Support Analysis (LSA) Plan as required by MIL-STD-1388-2. The LSAP requires a description of how LSA tasks and data interface with other ILS system oriented tasks and data including System/Equipment Design Program, System Equipment Reliability and Maintainability Program, System/Equipment Testability Program, Support Equipment Program, and Test and Evaluation Program. In addition, the LSAP requires descriptions of the methods and controls by which supportability and supportability-related design requirements are disseminated to designers and associated personnel and to subcontractors.
 - 5.4.1.2 LSA strategy report. The LSA strategy report requires proposed supportability objectives for the new systems and potential design impacts from performing LSA tasks and subtasks. Normally, SE that is related strictly to Government-furnished components installed in the end article is excluded from these requirements. SE that is required due to peculiarities of the installation of the Government-furnished components in the end article shall be investigated. SE identified in this process shall be submitted on the SE Candidate List for Government consideration. Along with the proposal the contractor will also submit an LSA plan which will define the contractor's plan for integrating all LSA tasks identified in the end article SOW.
 - 5.4.2 PSE requirements. The LSA plan should identify the contractor's method to integrate end article design with logistics support requirements to reduce life-cycle cost; in particular, to maximize the use of off-the-shelf SE and CSE, and to reduce the need to develop any PSE.
 - 5.4.3 Selection criteria. To promote standardization/nonproliferation of SE within the Government, the following order of priority shall be used in preparing recommendations:
 - a. Standard/Preferred/service SE items.
 - Standard/Preferred DOD SE items.
 - Items in the Government inventory or being developed under Government contract.
 - Commercially available items that meet technical and logistics requirements.
 - e. Modification of any of the above.
 - Newly developed items.
 - 5.4.3.1 SE standardization and nonproliferation. In addition to conducting an aggressive standardization program in accordance with MIL-STD-680, the offeror, when preparing SE recommendations, shall obtain from the acquiring activity access to the acquisition documents and data described in the following paragraphs. These documents and data shall be used when selecting existing SE inventory items. Since these documents and data are periodically revised, care shall be exercised to use the latest issue in effect at the time a selection is recommended to the Government.

- 5.4.3.1.1 "Avionics Preferred Common Support Equipment" (NAVAIR 16-1-525). This hard copy publication presents a preferred item list of Navy Aviation CSE used by aviation maintenance activities to test, maintain, and repair electronic systems.
- 5.4.3.1.2 "Non-Avionics Preferred Common Support Equipment" (NAVAIR 19-1 127). This microfiche publication presents a preferred item list of Navy Aviation CSE required by aviation maintenance activities to test, maintain, and repair aeronautical systems.
- 5.4.3.1.3 "Technical Information File of Support Equipment" (MIL-HDBK-300). This microfiche file presents a central source of technical information for some aircraft and missile system SE in the Government inventory. Screening may also be performed through the use of an automated SE Data Base.
- 5.4.3.1.3.1 "Air Force Standard/Preferred Items List (AF SIL/PIL)". This file lists aircraft and missile mission equipment and SE designated as Air Force standard or preferred items. This file is to be a subset of the automated SE Data Base.
- 5.4.3.1.3.2 "Standard Tools for Aeronautical Repair" (USAF). This paper copy lists the standard tools which may be used for aircraft and ground SE repair. This list is to be a subset of the automated SE Data Base.
- 5.4.3.1.3.3 "Standard Tools for Aeronautical Removal and Replacement" (USAF). This paper copy lists the standard tools which may be used for aircraft and ground SE removal and replacement. This list is to be a subset of the automated SE Data Base.
- 5.4.3.1.4 "Standard General Purpose Electronic Test Equipment" (MIL-STD-1364). This hard copy publication identifies standard and substitute standard general-purpose electronic test equipment (GPETE) that has been determined to be suitable for Government use.
- 5.4.3.1.5 "Standard General Purpose Electronic Test Equipment Support Items" (MIL-HDBK-265). This hard copy publication identifies standard and substitute standard general-purpose electronic test equipment support items (GSIs) that have been determined to be suitable for Government use.
 - 5.4.3.1.6 Other sources of data.
- 5.4.3.1.6.1 Government-Industry Data Exchange Program (GIDEP). The GIDEP is a cooperative activity between Government and contractors. Its purpose is to reduce or eliminate excessive expenditure of time and money by providing a means of exchanging certain types of technical data (excluding classified and proprietary information) essential to the research, design, development, production, and operational phases of systems and equipment. Participants in GIDEP are given access to the following major data banks: Engineering Data Bank, Reliability-Maintainability Data Bank, Metrology Data Bank, and Failure Experience Data Bank. Contractors shall participate in the GIDEP on a contractual basis as prescribed in MIL-STD-1556.

- 5.4.3.1.6.2 "Allowance List of Consumable Common General Support Equipment for All Types, Classes, Models of Aircraft" (NAVAIR 00-35QG-16). This hard copy publication identifies tools and other specific types of items that are to be excluded from the SERD preparation process.
- 5.4.3.1.7 "TMDE Preferred Items List (DA PAM 700-21-1). This hard copy publication provides technical information on standard supportable, test measurement and diagnostic equipment identified as preferred over other items in the TMDE Register."
- 5.4.3.1.8 "TMDE Register (DA PAM 700-21). This microfiche file provides a central source of technical information on all TMDE identified as in Army inventory."
- 5.4.4 Systems Engineering. The contractor shall provide a report delineating the systems engineering and LSA trade-off activities, studies conducted, and supporting rationale on a system summary level. The report shall highlight system design for supportability/testability and self-diagnostic capabilities and shall specifically address cost benefits, effectiveness, risk and future requirements. For those areas where trade studies are complete and external SE will be recommended, the contractor shall discuss the details of the requirements and equipment. This report shall be provided in accordance with the CDRL. The contractor shall prepare and deliver testability analysis reports in accordance with MIL-STD-2165, Tasks 201 and 202 and their respective CDRLs.

Prior to Critical Design Reviews (CDRs) the contractor shall provide a final report documenting the results of the trade studies and provide the details and documentation of the weapon system support requirements in terms of tasks (maintenance or other support functions), locations (where the tasks are to be performed), and the projected weapon systems inventory at each location which must be supported.

The detailed analysis of the support tasks locations and projected inventory requirements and the design alternatives considered to meet the requirements shall be included. Discussion shall be provided to outline the system, subsystem and repairable component trade-offs that led to the recommendation of external SE. This report shall be provided in accordance with the CDRL. At this time, the contractor shall prepare and deliver testability analysis plans in accordance with MIL-STD-2165, Task 203 and the CDRL.

- 5.4.4.1 Support Equipment Candidate List (SECL). The SECL shall be prepared and delivered in accordance with the CDRL to present a forecast and record of SE requirements. These requirements may be based on experience, intuitive judgment, or LSA. The approval of listed SE candidates by the approving authority will lead to development of SERDs. SECL revisions shall be submitted when any previously approved data element is changed.
 - 5.4.5 LSA-070, Support Equipment Recommendation Data (SERD).
- 5.4.5.1 Requirements for SERDs. Requirements for design, development, test, initial order, and ILS shall be established for each SE end Item through contractor submission and approval of the SERD by the approving authority. SE requirements identified on the SERD should be traceable to the analytical LSA

process described by MIL-STD-1388-1 and documented in accordance with MIL-STD-1388-2. Changes in design concept or logistic support data, if required, will be indicated on the SERD returned by the Government to the contractor. Information required in addition to that contained in the SERD may be requested, where necessary, by the SE approving authority. The additional data may be in the format of an end item specification. When authorized by the Government, SERDs shall be prepared for equipment other than SE such as machine lathes, generator test stands, etc., that only partially support air systems requirements.

- 5.4.5.1.1 SE for Government-furnished components. Normally, the contractor does not propose SERDs for a Government-furnished component installed in the end article. However, required items, due to peculiarities of the installation of the Government-furnished component in the end article, are required to be investigated and submitted for consideration.
- 5.4.5.1.2 New or special hand tools. New or special hand tools shall be identified and acquired by means of the LSA process. However, the normal engineering and certification requirements shall be tailored to a level commensurate with the complexity of the item.
- 5.4.5.2 <u>SERD exclusions</u>. SERDs shall be prepared only for support equipment as defined in paragraph 3.1.30. Review of documents, such as NAVAIR 00-350G-16, shall be useful in determining the specific type of items to be excluded from SERD preparation.
- 5.4.5.3 SERD submissions. A SERD shall be prepared and submitted for each item of SE required to satisfy functional requirements identified in the approved SECL. SERD submissions are a continuous requirement throughout the life of the contract, and shall include discussion of the LSA level of effort and the support plan envisioned for each maintenance significant end item. SE identified during project initiation or prototype contractual efforts shall be further addressed in the full-scale development/production contract. For Items and quantities not ordered in the project initiation, prototype, and fullscale development contracts, the ordering activity, upon notification from the approving authority, may authorize the contractor to proceed with the design. development, manufacture, and logistic support acquisition portion of the project under the production contract. For production contracts on weapon systems or subsystems that have been covered by SERDs during previous development or production contracts for the same end article, resubmission of SERDs is not required unless new requirements are identified.
- 5.4.5.3.1 Initial submission of SERDs. Initial SERDs shall be submitted in accordance with CDRL after the LSA process or approved SECL for the end article identifies the need for SE. Submission of SERDs shall include all budgeting and pricing, including the separate price out of required ILS services and data.
- 5.4.5.3.2 <u>Subsequent submission of SERDs</u>. Unless otherwise specified in the contract, subsequent SERDs shall be submitted in accordance with CDRL to provide the DOD activity with sufficient time to review the proposed SE items

and authorize procurement and delivery to support the first end article delivered to the acquiring activity. More frequent submissions may be made under mitigating circumstances involving engineering, procurement, criticality, or safety of flight considerations.

- 5.4.5.4 <u>SERD dispositions</u>. The acquisition and ILS actions indicated in the SERD and authorized by the ordering activity shall be initiated upon receipt of the dispositioned SERD from the approving authority. Additionally, the dispositioned SERD shall be distributed in accordance with the CDRL. A dispositioned SERD is one that has received approving authority consideration that resulted in either approval, disapproval (including deletion), pending, or direction to revise and resubmit.
- 5.4.5.5 <u>SERD revisions</u>. SERD revisions shall be submitted when, for example, new requirements are identified for previously submitted SERDs, new authorized activities are added, authorized quantities are revised, or any previously approved data element is changed. For PSE, a technical update revision shall also be submitted after DD Form 250 acceptance of the SE hardware to actually describe the end item's final design and data elements as necessary. This revision shall also contain an illustration/line art drawing of the production end item and be delivered in accordance with the CDRL. SERD revisions will be dispositioned as approved or disapproved.
- 5.4.5.6 <u>SERD status information</u>. A logistic engineering progress report covering SERD status for each approved SERD shall be submitted in accordance with the CDRL.
- 5.4.6 Early SE identification for procurement. In instances where known or anticipated SE design and procurement lead time considerations dictate a need for recommending the SE item to the SE approving authority for consideration to meet test, evaluation, or operational requirements prior to the availability of formal documentation resulting from the LSA process, such requirements shall be submitted on the SECL for approval based on the lead time requirements. Anytime during the many iterations of end article LSA that findings indicate SE requirements previously provided to the Government require change, immediate action shall be taken to revise the SE submission. If a change in SE requirements is identified by this comparison, revised SECLs or SERDs shall be submitted.

5.5 Exceptional SE selection practices.

- 5.5.1 Government-furnished SE. Items which are determined to be properly Government-furnished, but which the Government is unable to provide on a time-ly basis, may be authorized for offeror procurement. In such instances, the Government will provide appropriate procurement data and recommended sources.
- 5.5.2 <u>Vendor items</u>. The Government may, at its option and after coordination with the prime contractor, effect direct contact with the prime contractor's vendors for the purpose of review, familiarization, and coordination on the selection of SE and associated ILS. Throughout the direct contact, no actions by Government personnel shall be interpreted as to imply a commitment on

the part of the Government or prime contractor. Any item selected for subsequent acquisition at the time of review shall not be considered by the vendor to constitute a commitment or obligation on the part of the Government or prime contractor to order the selected items. Prime contractors and their vendors will further ensure that any contract entered into with vendors will include an appropriate clause whereby the vendor agrees to furnish directly to the Government information copies of such documentation as is prescribed in this document and give such assistance as may be necessary to enable the Government to select SE.

5.6 Acquisition.

5.6.1 <u>Establishing design</u>, test, and technical characteristics. Unless otherwise specified or defined in the SERD, SE design, test, or technical characteristics shall be in accordance with the following list of specifications and standards as appropriate to the nature of the particular SE item:

DOD-STD-100	Engineering Drawing Practices.
MIL-STD-480	Configuration Control - Engineering Changes, Devia- tions and Walvers.
DOD-D-1000	Drawing, Engineering and Associated List.
DOD-STD-2167	Defense System Software Development.
MIL-C-4150	Case, Transit and Storage, Waterproof and Water- vaporproof.
MIL-S-5944	Slings, Aircraft, General Specification for.
MIL-E-6051	Electromagnetic Compatibility.
MIL-I-6870	Inspection Program Requirements, Nondestructive for Aircraft and Missile Materials and Parts.
MIL-P-9024	Packaging, Handling and Transportability in Systems/ Equipment Acquisition.
MIL-Q-9858	Quality Program Requirements.
MIL-P-15024	Plates, Tags and Bands for Identification of Equipment.
MIL-D-18300	Design Data Requirements for Avionic Equipment.
MIL-T-18303	Test Procedures, Reproduction, Acceptance, and Life for Aircraft Electronic Equipment, Format for.
MIL-N-18307	Nomenclature and Identification for Aeronautical Systems Including Joint Electronics Type Designated Systems and Associated Support Systems.

MIL-D-23140	Drawings, Installation Control, for Shipboard Electronic Equipment.
MIL-T-28800	Test Equipment for Use With Electrical and Electronic Equipment, General Specification for.
MIL-M-38510	Microcircuit, General Specification for.
MIL-I-45208	Inspection System Requirements.
MIL-STD-12	Abbreviations for Use on Drawings, Specifications, Standards and in Technical Documents.
MIL-STD-130	Identification Marking of U.S. Military Property.
MIL-STD-196	Joint Electronics Type Designation System.
MIL-STD-280	Definitions of Item Levels, Item Exchangeability, Models and Related Terms.
MIL-STD-461	Electromagnetic Emission and Susceptibility Requirements for the Control of Electromagnetic Interference.
MIL-STD-470	Maintainability Program for Systems and Equipment.
MIL-STD-471	Maintainability Verification/Demonstration/Evaluation.
MIL-STD-481	Configuration Control - Engineering Changes, Devia- tions and Waivers (Short Form).
MIL-STD-483	Configuration Management Practices for Systems, Equipment, Munitions, and Computer Programs.
MIL-STD-490	Specification Practices.
MIL-STD-721	Definitions of Terms for Reliability and Maintain-ability.
MIL-STD-781	Reliability Testing for Engineering Development, Qualification and Production.
MIL-STD-785	Reliability Program for Systems and Equipment Devel- opment and Production.
MIL-STD-808	Finishes, Material, and Processes for Corrosion Pre- vention and Control in Support Equipment.
MIL-STD-810	Environmental Test Methods.
MIL-STD-831	Test Reports, Preparation of.
MIL-STD-875	Type Designation System for Aeronautical and Support Equipment.

MIL-STD-882	System Safety Program Requirements.
MIL-STD-961	Military Specification and Associated Documents. Preparation of.
MIL-STD-965	Parts Control Program.
MIL-STD-970	Standards and Specifications, Order of Preference for the Selection of.
MIL-STD-1309	Definitions of Terms for Test, Measurement, and Diagnostic Equipment.
MIL-STD-1365	General Design Criteria for Handling Equipment Associated with Weapons and Related Items.
MIL-STD-1367	Packaging, Handling, Storage, and Transportability Program Requirements (for Systems and Equipments).
MIL-STD-1378	Requirements for Employing Standard Electronic Modules.
MIL-STD-1388/1	Logistic Support Analysis.
MIL-STD-1388/2	Logistic Support Analysis Record, DOD Requirements for.
MIL-STD-1456	Contractor Configuration Management Plans.
MIL-STD-1472	Human Engineering Design Criteria for Military Systems, Equipment, and Facilities.
MIL-STD-1519	Test Requirements Document, Preparation of.
MIL-STD-1520	Corrective Action and Disposition System for Non-conforming Material.
MIL-STD-1521	Technical Reviews and Audits for Systems, Equipment, and Computer Software.
MIL-STD-1528	Production Management.
MIL-STU-1535	Supplier Quality Assurance Program Requirements.
MIL-STD-1567	Work Measurement.
MIL-STD-1568	Materials and Processes for Corrosion Prevention and Control in Aerospace Weapon Systems.
MIL-STD-1574	System Safety Program for Space and Missile Systems.
MIL-STD-1629	Procedures for Performing a Failure Mode, Effects, and Criticality Analysis.

MIL-STD-1653	Power Cable Assemblies.
MIL-STD-1686	Electrostatic Discharge Control Program for Protection of Electrical and Electronic Parts, Assemblies and Equipment.
MIL-STD-1815	Military Standard Ada Programming Language.
MIL-STD-2076	Unit Under Test Compatibility with Automatic Test Equipment, General Requirements for.
MIL-STD-2077	Test Program Sets, General Requirements for.
MIL-STD-2096	Microcircuit Data Requirements.
MIL-STD-2173	Procedures for Determining Calibration Standards for Aviation SE.
MIL-STD-8512	Support Equipment Aeronautical Special General Speci- fication for the Design of.
MIL-HDBK-217	Reliability Prediction of Electronic Equipment.
MIL-HDBK-235	Electromagnetic (Radiated) Environment Considerations for Design and Procurement of Electrical and Electronic Equipment, Subsystems and Systems.
MIL-HDBK-248	Guide for Application and Tailoring of Requirements.
MIL-HDBK-472	Maintainability Prediction.
NAVAIR 17-1-126	Standard Configuration of Electrical Input Power Cables for Avionics Test Equipment.
NAVAIR AD 1115	Electromagnetic Compatibility Design Guide for Avion- ics and Related Ground Support Equipment.
NAVAIR AD 1350	Engineering Drawings and Associated Data.
NAVAIR 0035QG-16	Allowance List of Consumable Common General Support Equipment for All Types, Classes, Models of Aircraft.
IEEE-STD-200-75	Electrical and Electronic Parts and Equipments, Reference Designations for.
IEEE-STD-315A-86	Graphic Symbols for Electrical and Electronic Dia- grams 12 Sep 86.
IEEE-STD-716-82	C/Atlas Test Language.
IEEE-STD-771-84	Atlas, Guide to the Use of.

- 5.6.1.1 <u>Design requirements, considerations, and constraints</u>. It is the Government's desire to have PSE designed in such a manner to require features, such as those described in the following subparagraphs.
- 5.6.1.1.1 <u>Calibration requirements</u>. Self-test of all necessary parameters shall be incorporated in design to ensure a verifiable test capability of the PSE. Cost, degradation of reliability and maintainability (R&M), as well as an unwarranted increase in PSE complexity will be important considerations in designing the PSE to meet self-test and calibration objectives. MIL-STD-2173 will be followed in the determination of calibration requirements for all SE procurements.
- 5.6.1.1.2 <u>Electromagnetic (EM) considerations</u>. Design considerations of electronic, electrical, and electromechanical end articles/end items should address the control of electromagnetic emissions. EM susceptibility characteristics, and requirements for electromagnetic compatibility (EMC), including EM interference (EMI), EM pulse (EMP), and EM radiation hazards.
- 5.6.1.1.3 Parts control program. The parts control program is intended for new design or modification (applicable to new parts used in the modification) in major weapon systems, end items of equipment where provisioning and follow-on support will be required, and other Government programs where life-cycle benefits can be derived. A parts control program shall be developed as specified in MIL-STD-965, the contract, and the CDRL.
- 5.6.1.1.4 <u>System safety program</u>. A system safety program shall be conducted that identifies all hazards and provides a methodology to either eliminate or control these identified hazards.
- 5.6.1.1.4.1 System Safety Program Plan (SSPP). An SSPP shall be prepared in accordance with the applicable requirements of MIL-STD-882 and the CDRL. The SSPP will include, but not be limited to, the following:
 - a. A policy statement describing management commitment to prevention of hazards, as contrasted with reaction to accidents.
 - b. The specific methodology established to ensure that hazards are identified, classified, and ranked for consequence prior to their occurrence.
 - c. The authority and organizational position of those charged with the responsibility of resolving management action on identified hazards.
 - d. The analytical techniques employed to identify and rank hazards for either limitation or control. The selection of specific types of analyses is the offeror's responsibility. However, the SSPP should contain a description of the analytical method(s) being utilized and how they will be applied for decision making and tradeoffs.
 - e. A description of all specific tasks required to ensure optimum resolution of identified hazards.

- 5.6.1.1.4.2 System safety hazard analysis report. System safety hazard analysis reports shall be provided in accordance with the applicable requirements of MIL-STD-882 and the CDRL.
- 5.6.1.1.5 Reliability and maintainability programs. Reliability and maintainability programs shall be conducted to influence system design, systems effectiveness, logistics support requirements, and life-cycle cost. These programs shall be developed using considerations presented in MIL-STD-470, MIL-STD-786, MIL-STD-785, MIL-STD-2074, and MIL-STD-2084. The plans shall be delivered in accordance with the CDRL to describe the contractor's proposed R&M programs in response to the contractual R&M program requirements.
- 5.6.1.1.6 Test Bench Installations (TBIs). When an SE design requires the use of TBIs, the TBIs will not be included with the hardware, but will be clearly identified in the SERD.

5.6.2 Design exceptions.

- a. SE items required solely for depot-level use may be designed, and related drawings may be prepared, in accordance with the manufacturer's normal commercial practices.
- b. SE items designed for organizational or flight-line use shall comply with the applicable radiation susceptibility levels of MIL-HDBK-235; NAVAIR AD 1115 shall be used as an EMC design guide.
- c. Software program end item (test program set (TPS)) design, development, test, and documentation requirements are defined by MIL-STD-2077.
- d. SE items for shipboard applications shall be developed with reference to MIL-D-23140 and DOD-STD-1399.
- 5.6.3 <u>Establishing SE configuration</u>. Configuration control of SE end items in accordance with the requirements of MIL-STD-480 or MIL-STD-481 will be applied after the establishment of the product baseline. Until the product baseline is established, changes to configuration shall be made using both the SERD and appropriate Engineering Change Proposals (ECPs).
 - a. The functional baseline of the SE end item is established by Government approval of the end item specification or the initial SERD de- scribing the functional configuration identification (FCI) of the end item when an end item specification is neither required nor available.
 - b. The product baseline is established by Government acceptance (e.g., DD-250 execution) of the first production item procured and is defined by the detailed engineering drawings, specifications, and acceptance test procedures existing at the time of Government acceptance.
 - 5.6.4 SE design changes and configuration control.

- 5.6.4.1 Engineering Change Proposals (ECPs). ECPs shall be submitted in accordance with MIL-STD-480 or MIL-STD-481 as appropriate. Engineering changes for TPSs shall also comply with MIL-STD-2077. Implementation of approved ECPs shall be in accordance with MIL-D-81992, and require appropriate revisions or resubmissions of the MPs, TMs, provisioning data, and when required the LSA.
- 5.6.4.2 <u>Class I changes</u>. If, after establishment of the product baseline configuration of an item of SE, it is considered necessary to eliminate (delete from inventory, F1), change the design (modify/supersede, for future procurement, F2), replace with a more suitable item (alternate, F3), or add items of SE, because of any of the following conditions, the appropriate action as described below shall be selected and initiated.

5.6.4.2.1 Category A changes.

Condition: Change in end article dictates requirement for new item(s) of SE. Does not affect existing items.

Action: The end article ECP shall be accompanied by a SERD for each new SE end item. The SERD will be processed by the Government in conjunction with ECP processing. Action on each SERD will be taken concurrently with the ECP action to the contractor.

5.6.4.2.2 Category B changes.

<u>Condition</u>: Change in end article dictates requirement for new item(s) of SE that completely supersede(s) existing item(s). Superseded item(s) cannot be brought to configuration of new item(s).

Action: The end article ECP shall be accompanied by a SERD for each new SE end item. The SERD will state the Reason for Deletion Code F1 and the item number of the SE being replaced. The SERD will be processed by the Government in conjunction with ECP processing. Action on each SERD will be taken concurrently with the ECP action to the contractor.

5.6.4.2.3 Category C changes.

<u>Condition</u>: Change in end article dictates requirements for revised, existing item(s) of SE. Superseded item(s) should be modified to configuration of new item(s), retaining, if possible, the capability of the superseded item(s).

Action: The end article ECP shall be accompanied by a SERD for each new SE end item. When modification is required, the SERDs will be processed by the Government in conjunction with ECP processing. Action on each SERD will be taken concurrently with the ECP action to the contractor.

5.6.4.2.4 Category D changes.

<u>Condition</u>: Changes to an end item of SE are necessary to correct a design deficiency in the SE.

Action: An SE ECP shall be prepared and submitted in accordance with DOD-STD-480 and shall be accompanied by a SERD reflecting the new SE end item. When modification is required, the SERDs will be processed by the Government in conjunction with ECP processing. Action will be taken on the SERD concurrent with the ECP action to the contractor.

5.6.4.2.5 <u>Category E changes</u>.

Condition: Change to an end item of SE is necessary to implement a design improvement. All existing items will not necessarily be changed.

Action: An SE ECP shall be prepared and submitted in accordance with DOD-STD-480 and shall be accompanied by a SERD for the new item. The Government will determine whether all or part of the delivered items will be modified. When modification is required, the SERDs will be processed by the Government in conjunction with ECP processing. Action will be taken on the SERD concurrent with the ECP action to the contractor.

- 5.6.4.3 Class II changes. Class II changes shall be submitted to the ACO for review and concurrence in the classification.
- 5.6.4.4 ECPs and Configuration Management (CM). The CM plan shall be prepared and kept current to define how SE configuration documents that ensure proper configuration, identification, configuration control (including the control of approved ECPs), and configuration status accounting will be managed. Preparation, timing, and distribution of the CM plan shall be in accordance with the CDRL.
- 5.6.5 Monitoring hardware design and development. Progress toward designing and developing the PSE required by the Government shall be assessed during technical reviews such as preliminary design reviews and critical design reviews and physical and functional configuration audits conducted in accordance with MIL-STD-1521.
- 5.6.6 SE engineering drawings and associated lists. SE engineering drawings and associated lists shall be in accordance with DOD-D-1000. DOD-STD-100, and the CDRL. Unless specified otherwise, Level 3 drawings and related solicitation quality data will be provided. Associated data shall be prepared for development of ATE TPSs and shall be prepared in accordance with MIL-STD-2076 and MIL-STD-2077.
- 5.6.7 SE nomenclature. An SE end item nomenclature consisting of an item name developed using Handbook H6 procedures and a proposed Government-type designation developed from MIL-STD-196 or MIL-STD-875 as appropriate. The SE nomenclature shall be submitted in accordance with MIL-N-18307 and the CDRL.
- 5.6.8 Preparation of end item specifications. When directed by the SERD, specifications covering each of the contractor-furnished equipment SE items shall be prepared and submitted for approval. Each specification shall be kept up-to-date by revisions or amendments reflecting any changes to the equipment. End item specifications shall be prepared in accordance with MIL-STD-961 (preferred) and MIL-STD-490.

- 5.6.9 Establishment of Government/contractor liaison procedures for development and acquisition of designated SE critical items. When the Government establishes the end item as critical by applying special management indicators on the approved SERD, the SERD will also indicate suggested management procedures to focus special attention on the critical features of the end item. For example, the CDRL/SERD could stipulate reports such as the Logistic Engineering Progress Report, or any other techniques including a Milestone Plan. Items may be labeled critical by the contractor and/or Government due to time, price, engineering, safety, or mission essentiality considerations.
- 5.6.10 Support Equipment Illustrations (SEIs). SEIs shall be prepared for items specified by the Government on the approved SERD. One original DD Form 1786 and one set of legible and reproducible copies of illustrations are to be provided. The SEIs shall be provided in accordance with the CDRL.
- 5.6.11 Quality Assurance (QA) Program. A Quality Assurance program shall be developed in compliance with MIL-Q-9858A or MIL-I-45208, as specified by the procuring activity. MIL-STD-1520 Corrective Action and Disposition System, MIL-STD-1535 Supplier Quality Assurance Program, and MIL-STD-1686 Electrostatic Discharge Program are also required. NAVMATINST (ASN (5&L) (R&M & QA)) 4855.10 shall also be invoked for applicable electrical/electronic equipment. A Quality Assurance Program Plan will be developed and subject to approval by the Government. After acceptance of this plan, a Government QA representative may regularly assess the contractors' QA performance to determine the adequacy of the plan in actual use.
- 5.6.11.1 Warranties. The contractor for production of weapon systems shall provide written guarantees that: the item conforms to design and manufacturing requirements; the item is free from defects in materials and workmanship; the item will conform to essential performance requirements covering operating capabilities and reliability and maintainability characteristics; and the contractor will correct defects at no cost to the Government or will pay the costs incurred by the Government. The guarantee requirement applies to weapon systems that are in full-scale development/production. When directed by the acquiring activity, the contractor shall provide written warranties on SE end item.

5.6.12 Test and evaluation (T&E).

- 5.6.12.1 First Article Test (FAT) Plan. The contractor shall provide a FAT plan for Government acceptance that includes coverage of test procedures, test equipment, and inspection criteria defining the minimum performance requirements that the SE end item must meet in order to be considered acceptable to the Government. The test plan shall be developed in accordance with the CDRL.
- 5.6.12.2 Technical Evaluation (TECHEVAL). All new or significantly modified PSE will undergo a Government-controlled test and analysis required to determine whether a system/equipment meets the design requirements and is technically suitable, logistically supportable, and essential for service use.

- 5.6.12.3 Production Acceptance Test and Evaluation (PAT&E). PAT&E is that T&E conducted on production items of SE to demonstrate that the SE meets the performance requirements of the production contract specification. First article tests, preproduction tests, manufacturing screening tests (i.e., thermal cycling, burn-in, random vibration, etc.), quality assurance tests, and production acceptance tests are examples of PAT&E accomplished in accordance with the contract SOW. Execution of PAT&E is the responsibility of the DPA.
- 5.6.13 <u>Government-prepared SERDs</u>. SERDs prepared by Government activities will be forwarded to the contractor for the assignment of required item numbers and incorporation into appropriate data files.
 - 5.6.14 Acquisition review meeting.
- 5.6.14.1 Establishing requirement for meetings. An acquisition review meeting may be held at the option of the approving authority/acquiring activity when it is determined that such a meeting is necessary due to:
 - a. Program changes.
 - b. Engineering changes to the end article that would cause significant changes in items, quantities, or logistic support of SE recommended by or ordered from, the contractor.
 - c. Other reasons, subject to mutual agreement between the contractor and the Government.
- 5.6.14.2 Contractor preparation for meetings. A date and location for holding the acquisition review meeting shall be recommended to the approving authority. All technical data, including SERDs, specifications, MPs, and drawings available for the contractor-furnished equipment (CFE) items of SE to include items on the SECL, shall be available for the meeting. The approving authority will specify the items desired for inspection during the review meeting. The contractor will advise the approving authority of the items that cannot be made available and the reasons therefor. If the contract does not contain a specification covering engineering drawings, drawings used for manufacturing or acquisition purposes will be suitable for review purposes.
- 5.6.14.3 <u>Meeting agenda</u>. The Government team will review the specifications and supporting data furnished by the contractor. The team shall make whatever adjustments are necessary to meet current program requirements commensurate with the terms of the contract.
- 5.6.14.4 Actions resulting from acquisition review meetings. In accordance with the requirements specified in the CDRL, the contractor shall furnish to appropriate activities approved copies of the SERD(s) reflecting action required as a result of the meeting. After receipt of the approved copies of the SERD(s), the ordering activity shall provide the contractor with written authorization to proceed, terminate, or continue the design, fabrication, or acquisition and/or SE logistic support development/acquisition to meet current program requirements based upon approval and authorization furnished by the acquiring activity.

5.6.15 Ordering SE.

- 5.6.15.1 <u>Initial order</u>. The initial SE order is accomplished by the ordering activity based upon approval and authorization from the acquiring activity. The SE items, quantities, and estimated costs will be furnished to the ordering activity by the acquiring activity. The initial SE order may include requirements for SE engineering drawings and associated lists, support equipment illustrations, SE logistic support requirements, and other requirements as specified in the approved SERDs, the CDRL, and the order as specifically provided by the ordering activity.
- 5.6.15.2 Priced Support Equipment Lists (PSELs) and revisions. The PSELs reflecting the materials and effort covered by the Government orders shall be submitted in accordance with the CDRL. A separate priced list shall be submitted by the contractor for each contract line item of SE and SE ILS.
 - 5.6.16 Delivery of SE/hardware and data.
- 5.6.16.1 <u>Delivery schedule</u>. Delivery schedules for the SE hardware and data shall be proposed to the ACO after receipt of an order from the Government. Subsequently, the Government will approve, or will negotiate to revise, the contractor's proposed delivery on a specific SE end item basis. The Government will, at the time of, or following SERD approval, provide the contractor with an allocation sheet which provides shipping instructions for the SE hardware. Failure to agree on the delivery of a specific SE end item(s) will not affect the remaining items when the Government and the contractor have reached an agreement. The approved schedule will be incorporated into the contract at the time of incorporation of the PSEL. SE shall not be delivered before delivery of the training equipment or first end article, or the date of scheduled delivery, unless SE delivery is specified or approved by the Government. Government approval will be based on consideration of the ILS status as discussed in paragraph 5.7.3. The early delivery of these items of SE will normally be limited to ship— or shorebase—installed items.
- 5.6.16.2 <u>Point of delivery</u>. The contractor will be notified formally of the destination of SE to be furnished. The ACO and contractor shall mutually agree on a date of scheduled delivery. When approved and directed by the ACO, the contractor shall instruct the manufacturer to make direct shipment to the designated destination.
- 5.6.16.3 Delivery limitations. SE shall not be delivered unless the shipping papers, including the packing sheets, SEI (if required), a revised/updated copy of the SERD, Section 1, and a copy of the allocation instructions that authorize the SE end item(s) for the recipient, fully identify each item to be shipped in accordance with the identification established for such items, except that the contractor may shorten the description by listing the principal noun and type designations in addition to one or two descriptive modifiers. Unless otherwise authorized by the SE ordering activity, no equipment for operational or training purposes shall be shipped without a nameplate prepared in accordance with MIL-N-18307.

- 5.6.16.3.1 Marking of material. The contractor shall identify and mark items of military property produced, stocked, stored, and issued as specified in MIL-STD-130. Marking for shipment and storage required by Military Standard Requisitioning and Issue Procedures (MILSTRIP) and Military Standard Transportation and Movement Procedures (MILSTAMP) will be in accordance with MIL-STD-129. Bar coding for marking unit packs, outer containers, and selected documents shall utilize DOD symbology defined in MIL-STD-1189.
- 5.6.17 <u>Cost reports</u>. Cost reports prescribed by the Contractor Cost Data Reporting (CCDR) system and documented on DD Form 1921, Cost Data Summary Report, and DD Form 1921-1, Functional Cost-Hour Report shall be provided in accordance with the CDRL.
- 5.6.17.1 <u>DD Form 1921</u>. All end items of SE and SE ILS will be listed on a DD Form 1921. The reporting elements (Column b on the form) should identify the appropriate SERD item number, manufacturer's reference number or NSN, and nomenclature.
- 5.6.17.2 <u>DD Form 1921-1</u>. All SE listed on the DD Form 1921 that is also identified on the SERD for special management attention because of price, shall require cost and man-hour data by functional category as exhibited on the DD Form 1921-1.
- 5.7 Integrated Logistics Support (ILS). To ensure that the Government receives a total system that can be supported over its life cycle, planning, funding, and controlling considerations shall be applied to integrate individual logistics elements.
- 5.7.1 Ordering of ILS services and data. Selective ordering of SE ILS services and data is accomplished during the SERD recommendation, review, and approval process. Frequently required logistics elements may be preprinted on appropriate SERD sheets and must be addressed by the contractor. Recommendations or nonrecommendations with explanations as appropriate along with budgetary price for each element (standard cost per DID or LSAR output data) as required by the CDRL shall be a part of SERD submission. Space is also provided on the SERD for the contractor to insert less frequently required logistics elements and services that may apply to the specific SE item being recommended. The approving authority shall approve, revise, and/or add specific logistics support item information on the SERDs. Based on the requirements in the approved SERDs and such other supplemental information and data furnished to the ordering activity, the contractor will be authorized to initiate or proceed with SE logistics support actions concurrently with the initial SE hardware development/acquisition.
- 5.7.2 <u>Logistics support requirements</u>. Logistics support requirements shall be considered but not be limited to:
 - a. Establishing an ILS management system.
 - b. Developing integrated support plans (ISPs).

- c. Conducting LSA in accordance with MIL-STD-1388-1/2 to produce a SE maintenance plan and determine support requirements.
- d. Preparing support material lists (SMLs) and providing repair of repairables (RORs).
- e. Preparing provisioning technical documentation (PTD), and a Master Index of Repairables (MIRs).
- f. Identifying SE for SE, including calibration standards.
- g. Determining facilities requirements and preparing SE installation data (SEID).
- h. Preparing technical manuals (TMs), maintenance requirements cards (MRCs), and instrument calibration procedures (ICPs).
- Conducting Component Pilot Rework/Repair (CPR/R).
- Preparing rework standards.

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- k. Determining/providing new start data packages.
- 1. Preparing training and training equipment plans (TTEPs) and training courses and conducting contractor training.
- m. Furnishing Contractor Engineering and Technical Services (CETS).
- n. Evaluating/preparing Packaging, Handling, Storage, and Transportation (PHS&T) requirements.
- o. Providing phased support planning.
- 5.7.2.1 <u>ILS organization and management</u>. Immediately upon receipt of a funding authorization, an ILS management system shall exist for the SE end item(s). This system shall be used to monitor and control the development and execution of the ILS portion of the contract and shall be described in the SE section of the end article ISP. As a minimum, the SE ILS management system shall include provisions as described in the following subparagraphs.
- 5.7.2.1.1 <u>ILS manager</u>. A separate SE ILS manager shall be established as the single point of contact for SE ILS matters.
- 5.7.2.1.2 ILS Management Team (ILSMT) meetings. The ILSMT, consisting of Government and contractor personnel, is assembled and chaired by the Government. The ILSMT meets regularly throughout the weapon system and associated SE acquisition cycle to assess and manage quantitative and qualitative logistics support requirements, manage ILS acquisition to ensure effectiveness and timeliness, and interface the various ILS elements. SE ILSMT meetings may be held either as a subset of contract end article ILSMT meetings, or independently. Meeting data shall be provided in accordance with MIL-STD-847 and the CDRL.

- 5.7.2.1.3 ILSMT meeting agenda. Inputs to the SE ILSMT meeting agenda shall be provided in accordance with the CDRL. ILSMT meetings will normally open with appropriate briefings and action assignments and will generally proceed on a functional area (e.g., training, supply support) working subgroup basis, using the action chit/item method of problem documentation and resolution.
- 5.7.2.1.4 <u>ILSMT minutes</u>. Inputs to SE ILSMT meeting minutes shall be provided in accordance with the CDRL. Minutes will normally include status of pending action chits followed by new action chits.
- 5.7.2.1.5 <u>ILSMT action chits</u>. Government assignment of responsibilities and action taken on ILSMT meeting action chits shall be documented in accordance with the CDRL, for publication in the ILSMT minutes. The Government may periodically request the status of chit items.
- 5.7.2.1.6 <u>Logistics engineering progress report</u>. Status, major problem definition, and analytical and technical reports with recommendations and specific engineering investigations required shall be provided in accordance with the CDRL.
- 5.7.2.2 <u>Integrated Support Plan (ISP)</u>. The SE section of the end article ISP shall be prepared in accordance with the CDRL. This plan shall describe the contractor's approach and plan for meeting SE requirements contained in the ILS detail specification (ILSDS). It shall also provide visibility of key events, their relationship with other elements and actions of the ILS program, and the schedule for their accomplishment.
- 5.7.2.3 <u>SE Logistics Support Analysis (LSA)</u>. The contractor shall develop an LSA program for SE in accordance with MIL-STD-1388-1/2 and applying the principles of MIL-STD-470, MIL-STD-785, and MIL-STD-1390; however, data to be submitted shall be an integral part of the contract end article maintain—ability program. No separate SE maintainability demonstration (MIL-STD-471) shall be required unless specifically authorized by the ACO. The SE LSA program shall be compatible with any similar program for the contract end article and tailored to fit the cost and complexity of each SE item in accordance with Appendix A and other available LSA tailoring guidance.
- 5.7.2.3.1 SE LSA Plan (LSAP). An SE LSAP shall be prepared referencing MIL-STD-1388-1, Task 102. The LSAP shall include: (1) the identification of the performing activity's management responsibilities and activities, and (2) the identification, integration, and outline of the performing activity's approach to accomplish the required LSA tasks.
- 5.7.2.3.2 LSAR data. All LSAR data shall be provided in accordance with MIL-STD-1388-2. To preclude data duplication, the CDRL will reflect a preference for LSAR data to the maximum extent practical. The SE LSAR should be developed in accordance with the LSAR Data Selection Sheets (DD Forms 1949-1) which will reflect the tailored SE design and LSA program.

- 5.7.2.3.3 Level of Repair Analysis (LORA)/Repair Level Analysis (RLA). The LORA is the analysis process to determine the best level of repair for an item, considering operational and economic factors. Analysis shall be performed in accordance with MIL-STD-1390. Requirements for the LORA Program Plan, LORA Status Report, and LORA Input Data Report, etc., will be specified in the CDRL. The RLA performed for the Air Force may utilize an analysis model as specified in the contract.
- 5.7.2.3.4 Failure Mode, Effects, and Criticality Analysis (FMECA) plan. This plan documents the contractor's plans and activities for implementing FMECA tasks. It shall be delivered in accordance with MIL-STD-1629 and the CDRL.
- 5.7.2.3.'S <u>FMECA report</u>. This report provides an analysis of independent single item failures and the resulting potential impact on mission success, performance, personnel safety, and maintainability. It shall be delivered in accordance with MIL-STD-1629 and the CDRL.
- 5.7.2.3.6 Calibration/Measurement Requirements Summary (CMRS). As part of the LSA data base, a CMRS effort shall be established to include a contractor-prepared summary of the technical requirements of the system, subsystem, or equipment, outlining the measurement parameters, specifying ranges, accuracies, and calibration intervals for each echelon of measurement. This summary is used to determine that the system, subsystem, or equipment is adequately supported with SE, thereby traceable to known standards, as well as the measurement, qualification, and calibration workload agreements. MIL-STD-2173 has procedures for determination of calibration intervals and standards as part of the normal LSA process. The CMRS must be justified by the RCM analysis for identification of calibration requirements. The CMRS shall detail the data developed as specified in MIL-STD-1839 and shall be provided in accordance with the CDRL. Calibration procedures shall be prepared in accordance with MIL-STD-45662.
- 5.7.2.3.7 <u>Task and skills analysis report</u>. This report identifies technical tasks that will be performed by operator and maintenance personnel, job descriptions, and manpower requirements necessary for the proper operation, maintenance, and repair of systems and equipment. This report shall be provided in accordance with the CDRL.
- 5.7.2.4 <u>SE MP development</u>. A SE MP shall be developed as part of the tailored SE LSA process. The MP identifies SM&R codes, technical factors, maintenance levels, and SE requirements associated with the end item. The MP is developed in accordance with MIL-STD-1388-2 (i.e., LSA-024, Maintenance Plan).
- 5.7.2.5 Type Equipment Code (TEC). A TEC shall be requested from the Government in writing, citing equipment nomenclature, manufacturer, manufacturer's part number, and, if available, NSN and technical manual number. The assigned TEC will identify an end item in the Maintenance Data Collection System (MDCS) by its application to the type/model/series of aircraft or equipment that it supports and shall appear on the equipment nomenclature identification plate in accordance with MIL-N-18307.

- 5.7.2.6 Work Unit Code (WUC). The CDRL and MIL-STD-780 will specify the requirement to develop a three-, five-, or seven-character alphanumeric code assigned to an end item and repairable assemblies, subassemblies, and components of an end item to identify the equipment within the maintenance data collection subsystem (MDCS).
- 5.7.2.6.1 <u>WUC item listing</u>. The WUC item listing provides data on repairable assemblies and subassemblies for use by the Government in developing WUC manuals. It shall be provided in accordance with the CDRL.
- 5.7.2.7 Supply support. Supply support (provisioning) data for the SE end item shall be provided using data from the LSAR data base. All provisioning data provided for repairable spares shall be traceable to, and match, data on the Government approved MP. If provisioning data are developed in conjunction with the contract end article, these data shall not be duplicative.
- 5.7.2.7.1 Support Material List (SML). The SML is a composite listing of all contractor- and Government-furnished spares and repair parts, training equipment, and PSE to be provided to support a preoperational (interim) program. The SML shall be screened in accordance with DOD 4100.38-M and delivered in accordance with the CDRL.
- 5.7.2.7.2 Consumption usage report. This report documents SML asset usage and provides data to the Government to refine operational support requirements and to update LSA data. The consumption usage report shall be provided in accordance with the CDRL.
- 5.7.2.7.3 Transition status report. This report shall be provided in accordance with the CDRL. The report shall present the status of preoperational training, facilities, and spares and repair parts support to aid the Government in subsequent support planning.
- 5.7.2.7.4 Residual asset preoperational (interim) report. This report lists all SML assets in contractor custody at the time of transition from contractor to Government support for transfer into Government inventories. The report shall be provided in accordance with the CDRL.
- 5.7.2.7.5 Repair of Repairables (ROR). When separately funded by contract, repair facilities shall be established for those spares for which the Government does not have repair capability. The contractor is authorized, as required, to stock repair parts to the extent necessary to ensure repairs are accomplished within allotted time. The contractor shall maintain data on each repair for accountability and usage analysis.
- 5.7.2.7.6 Provisioning Technical Documentation (PTD). When required by the Provisioning Requirements Statement (PRS) DD Form 1949-2, which includes the Logistic Support Analysis Record Data Selection Sheet (LSARDSS) DD Form 1949-1, and the Provisioning Performance Schedule (PPS), Figure 2 of MIL-STD-1561, the contractor shall prepare PTD in accordance with MIL-STD-1388-2. MIL-STD-1561 and the PRS. PTD is to be submitted pursuant to the PRS. The Government uses the PTD to identify, select, and determine initial requirements and to catalog support items to be procured through the provisioning process. PTD may consist of some or all of the data described below.

- 5.7.2.7.7 <u>Provisioning Parts List Index (PPLI)</u>. This index shall be provided in accordance with the CDRL and the PRS for use during provisioning to provide cross-reference access to part/component entries of the PPL.
- 5.7.2.7.8 Supplementary Provisioning Technical Documentation (SPTD). SPTD is part of PTD as set forth in paragraph 5.6.2.7.7. SPTD consists of data such as specifications, standards, drawings, photographs, sketches, descriptions, and schematic diagrams needed to indicate the location and function of the item for provisioning. The contractor shall provide SPTD in accordance with the CDRL and the PRS.
- 5.7.2.7.9 Manufacturer's commercial manual (provisioning). This manual supplements the Short form Provisioning Parts List (SFPPL) and is used to determine the range and depth of spares and repair parts required to maintain the SE end item for an initial period of service. The contractor shall deliver manuals in accordance with the CDRL. If a TMCR is part of the contract, the procedures for TM development, approval, and delivery established therein shall govern.
- 5.7.2.7.10 List of Standard/Modified Hand Tools (LSMHT). This list permits proper planning for the required hand tools (both powered and non-powered) which are applicable to systems and equipment and which is normally in two sections: standard hand tools, and hand tools requiring rework.
- 5.7.2.8 Master Index of Repairables (MIR). This index shall be provided in accordance with the CDRL. The MIR contains data relating to each repairable that provides management with information regarding repairable item identification, evaluation, aircraft application, and maintenance activity workload projection.
- 5.7.2.9 <u>Calibration standards</u>. Calibration standards will be considered SE for purposes of acquisition, maintenance planning, ILS planning, and CM. SERDs must be provided for calibration standards in accordance with paragraph 5.3.4.
- 5.7.2.10 SE Installation Data (SEID). Data including services, space, monitoring, environmental, electrical, physical, mechanical, interfaces, special facility, and safety requirements related to the installation of SE in existing or planned shipboard/shore-based facilities shall be provided in accordance with the CDRL.
- 5.7.2.11 <u>Facilities data</u>. In addition to the SEID, if the Government-approved SERD indicates installation significance, the contractor shall provide the following installation data.
- 5.7.2.11.1 <u>Facilities Requirements Document (FRD)</u>. An FRD shall be prepared and delivered in accordance with the CDRL. If performed in conjunction with the end article, these data shall not be duplicative.
- 5.7.2.11.2 <u>Site evaluation report</u>. Site evaluation reports shall be prepared and delivered in accordance with the CDRL. If performed in conjunction with the end article, these data shall not be duplicative.

- 5.7.2.12 Technical Manuals (TMs). TMs, including MRCs, for the SE end item shall be provided in accordance with MIL-M-38784, MIL-P-38790, MIL-M-63036, MIL-M-63038, MIL-HDBK-63038-1, MIL-HDBK-63038-2, MIL-M-81919, MIL-M-81927, MIL-M-81929, MIL-M-85337, MIL-STD-335, the TMCR, the SERD, and the CDRL.
- 5.7.2.12.1 Maintenance Requirements Cards (MRCs). MRCs shall be developed and delivered in accordance with MIL-M-23618, the TMCR, and the CDRL.
- 5.7.2.12.2 <u>Instrument Calibration Procedures (ICPs)</u>. These ICPs are intended to provide necessary instructions for the periodic calibration of Test, Measurement, and Diagnostic Equipment (TMDE) which permit verification of the original accuracy of the device/instrument. Typically, ICPs are developed for each item. ICP requirements are specified on DD form 1423 and are defined to meet Government needs for specifications, standards, drawings, and publications.
- 5.7.2.12.3 <u>Technical Manual Data List (TMDL) and Technical Manual Data Card (TMDC)</u>. A TMDL/TMDC shall be prepared and delivered in accordance with MIL-L-7976, the TMCR, and the CDRL.
- 5.7.2.12.4 TM status report. These reports ensure the Government that contractor manuals are being developed in accordance with approved schedules and/or to take timely corrective action if discrepancies are identified. Reports are prepared and delivered in accordance with the TMCR and the CDRL.
- 5.7.2.12.5 <u>Report of TM costs</u>. This report provides periodic cost data related to TMs being developed under the terms of the contract. Reports are prepared and delivered in accordance with the TMCR and the CDRL.
- 5.7.2.13 Component Pilot Rework/Repair (CPR/R) package. If the SE item meets the repair and MP criteria cited in paragraph 5.7.2.14, and depot rework or intermediate repair requires specialized or new repair procedures, a CPR/R package shall be recommended and provided in accordance with the CDRL.
- 5.7.2.14 Rework standard. When the SE item is repairable and the approved MP indicates depot-level repair, a rework standard shall be developed in accordance with the requirements of MIL-STD-2078 and the CDRL.
- 5.7.2.15 <u>Training</u>. The following training data shall be provided in conjunction with the development of the LSA, CMRS, and MP, and in accordance with MIL-STD-1379 and the CDRL.
- 5.7.2.15.1 Training and Training Equipment Plan (TTEP). This comprehensive plan for providing training resulting from proposed SE shall be provided in accordance with the CDRL. This program/plan is evaluated as an integral part of the system/equipment proposal and is used to contract for the required training to be provided.
- 5.7.2.15.2 <u>Training course proposals</u>. These proposals contain cost and technical information on the acquisition of training courses and instructor training services. They are provided in accordance with the CDRL.

- 5.7.2.15.3 <u>Training Course/Curriculum Outlines</u>. These outlines define scope, content, duration, and schedule of contractor-conducted courses. They shall be prepared in accordance with the CDRL.
- 5.7.2.15.4 <u>Instructor/Lesson Guides Training Courses</u>. These guides are used to organize the instructor's presentation and to ensure that all required topics, subtopics, and related reference material are included in the presentation of procured training courses. Instructor Lesson Guides shall be prepared in accordance with the CDRL.
- 5.7.2.15.5 <u>Student's Training Course Guide</u>. This guide contains all information needed by the student to achieve training course objectives. This guide shall be prepared in accordance with the CDRL.
- 5.7.2.15.6 Audiovisual aids, master reproducibles, and review copies for training equipment and training courses. These data provide the Government with capability to duplicate and distribute additional copies of audiovisual aids provided with training equipment and related training courses. They shall be provided in accordance with the CDRL.
- 5.7.2.15.7 <u>Tests to measure student achievement</u>. These tests shall provide data in accordance with the CDRL necessary to measure student achievement in a training course.
- 5.7.2.15.8 Student and training course evaluation forms. These forms shall be provided in accordance with the CDRL. They are used to report on student training progress and to evaluate the course and related materials.
- 5.7.2.15.9 Factory training curriculum materials. These materials consist of all curriculum materials except training devices/hardware and TMs used in conducting a factory training course. Materials shall be prepared in accordance with the CDRL.
- 5.7.2.16 Contractor Engineering and Technical Services (CETS) plan. The CETS plan provides for factory training and on-site, on-the-job, informal, and formal training of test and operational personnel, and provides for advisory and liaison services other than training to support the system/equipment. CETS shall be provided in accordance with the CDRL.
- 5.7.2.17 Packaging, Handling, Storage, and Transportation (PHS&T). PHS&T requirements applicable to SE shall be provided in accordance with MIL-STD-648, MIL-STD-2073/1, MIL-STD-1367, and the CDRL.
- 5.7.2.18 Phased Support Plan (PSP). This plan identifies the logistics and maintenance support required to accomplish the maintenance plan, including mobilization and modification support requirements. It applies to acquisition programs for weapons systems and to maintenance, calibration, and training activities which support hardware and software.
- 5.7.3 <u>ILS item delivery</u>. All ILS data items required shall be delivered to the designated activities in accordance with dates specified in the CDRL. In no event shall delivery dates for required MPs, spares and repair parts, TMs, training and depot (commercial) maintenance capability (if required) occur

after the delivery date of the first SE end item that is introduced to an operational activity. In the event that late deliveries of any of these ILS items are predicted by the contractor, the Government shall be immediately notified in writing.

5.7.4 Equipment records. Equipment record forms shall be prepared and delivered with the SE end item in accordance with DA PAM 738-751 and the CDRL.

6. INFORMATION FOR GUIDANCE ONLY

- 6.1 <u>Intended Use</u>. Standards conforming to the requirements of this standard are intended for use as military standardization documents and are listed in the DODISS. The purpose of this standard is to standardize the acquisition of support equipment and related requirements.
- 6.2 <u>Data requirements</u>. The following Data Item Descriptions (DIDs) are sourced to this standard. They must be listed, as applicable, on the Contract Data Requirement List (DD Form 1423) when this standard is applied on a contract in order to obtain the data, except where DOD FAR Supplement 27.475-1 exempts the requirements for a DD Form 1423.

<u>Paragraph</u>	DID Number	DID Title
5.4.4	DI-IL\$S-80040	Support Equipment Candidate List (SECL)
5.4.5	DI-ILSS-80118	LSA-070 SERD
5.7.2.10	DI-ILSS-80454	SE Installation Data (SEID)

The above DIDs were those cleared as of the date of this specification. The current issue of DOD 5010.12-L, Acquisition Management Systems and Data Requirements Control List (AMSDL), must be researched to ensure that only current, cleared DIDs are cited on the DD Form 1423.

Those DIDs listed in Appendix A, Table 1, which are not cited above, form a part of this standard and are related to the detailed requirements of Section 5.

6.3. Subject term (key word) listing.

Integrated Logistics Support
Integrated Logistics Support, Support Equipment
Logistics Support Analysis
Logistics Support Analysis Record
Support Equipment
Support Equipment, Common
Support Equipment, Peculiar
Support Equipment Recommendation Data

6.4 <u>Changes from previous issue</u>. Vertical lines or asterisks are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes.

APPENDIX A

APPLICATION AND TAILORING GUIDE

10. GENERAL

- 10.1 <u>Scope</u>. This appendix provides application guidance for use when this military standard is cited on a contract. It also identifies the data requirements that are frequently associated with this standard.
- 10.2 <u>Purpose</u>. The detailed requirements of paragraph 5 of this military standard prescribe the planning and processes to acquire SE, related ILS, and technical data. Since policy for acquisition streamlining is dynamic and since acquisitions range from the relatively simple to the complex, encompass off-the-shelf commercial items as well as state-of-the-art developments of a consumable or repairable nature, and may pertain to single service or multiservice applications, users of this standard will find it necessary to tailor the complete process to specific situations. Accordingly, Table 1 of this appendix was designed to assist Government and industry users engaged in developing or responding to SOW/ILSDS, CDRLs, and SE recommendations.
- 10.3 Application. This appendix is presented as a guide only. It offers a baseline of those DIDs that are related to Section 5 of this standard. Each DID should be reviewed in conjunction with each specific acquisition requirement to ensure that only essential data are requested/provided. A comprehensive DID listing once developed, should maximize the use of the data contained in the LSAR to preclude data development duplication. Some of the DIDs in Table 1 may be directly satisfied by LSAR output summaries. Refer to MIL-STD-1388-2, Appendix E for a list of current SE LSAR output summaries.

20. REFERENCED DOCUMENTS

20.1 <u>Issues of documents</u>. The documents, cited in Section 2 of this basic standard of the issue that is listed in the issue of the DODISS specified in the solicitation, are an integral part of this appendix.

30. DEFINITIONS

30.1 <u>Definitions</u>. The definitions presented in Section 3 of the basic standard also apply to this appendix.

40. GENERAL REQUIREMENTS

40.1 Contractual documents. The Government's requirement for SE end items is developed in two stages. First, end article contracts citing this standard and CDRLs based on the list of DIDs discussed herein will be developed to reflect the full spectrum of SE requirements. Second, during the SE recommendation process, these requirements will be tailored to needs on an item-by-item basis at appropriate Government/industry guidance conferences to ensure deliverable requirements are commensurate with the complexity of the specific end item.

- 40.2 Ordering data. This military standard will be used primarily for acquiring PSE. PSE ILS, and related technical data including data for the selection of existing CSE for application to the end article. It is intended for use during all phases of the end article and ILS life cycle. If every requirement contained in paragraph 5 is to be incorporated into the end article contract, no tailoring of the standard is necessary. If some of the requirements contained in paragraph 5 are to be deleted or modified, specific language in the SOW is necessary to tailor the standard.
- 40.3 <u>Data Item Descriptions (DIDs)</u>. The guidance in Table 1 may require adjustment for specific acquisition programs since it is based on typical theoretical programs, and since it is not unusual for some aspects of a development program to be in one phase and other aspects in another. The five Acquisition Phases are established in DOD Directive 5000.1. However, the production and operations support phases are combined in Table 1. Particular acquisitions will require tailoring down of certain DIDs. The initial selection of DIDs can be adjusted for the following considerations:
 - a. The amount of design freedom.
 - b. Time phasing adjustments if program is "fast track."
 - c. Work already done.
 - d. Data availability and relevancy.
 - e. Time and resource availability.
 - f. Desired tasks not in the standard.
 - q. Procurement considerations.

Most of the factors above tend to reduce or restrict the amount of analysis activity. The DIDs cited are those listed in the Acquisition Management Systems and Data Requirements List, DOD 5010.12.L.

40.3.1 <u>Duplicate DIDs</u>. Some DIDs are applicable to and listed under more than one subject area. In those cases it is encumbent upon the requiring authority to determine whether that DID will serve the needs of all subject areas and only order that data one time. If the same DID is required in several subject areas with different data requirements, that DID should be tailored to each subject area in the corresponding CDRL.

50. DETAILED REQUIREMENTS

50.1 Applications. This appendix should be used to tailor the optimum range of acquisition, ILS, and technolal data requirements stipulated throughout the entire military standard to specific SE end item acquisitions that may require less than the full range of acquisition and ILS considerations. This appendix may also be used to develop CSE contracts that benefit from the building-block approach developed herein.

- 50.2 LSA Tailoring. The acquisition program for PSE, due to its nature, is often compressed in order for the SE to be fielded with the weapon system end item. The tailoring guidance for LSA contained in MIL-STD-1388-1 should be considered in the development of the SE end item ILS program. Many of the up-front LSA tasks, such as Task 101 (LSA Strategy), 102 (LSA Plan), 201 (Use Study), 203 (Comparative Analysis) and 204 (Technological Opportunities) should be accomplished by the contract end article LSA program. The outputs of these LSA tasks will be reflected in the development of the SERD and its supplemental data. Some broadly based guidelines for SE end item LSA should include but not be limited to tailoring the LSA to one of the following options:
 - a. Conduct an R&M analysis on approved LSA candidates.
 Conduct a failure mode and effects criticality analysis
 (FMECA) in accordance with MIL-STD-1629, tailored appropriately.
 Based on these results perform a reliability-centered maintenance analysis. Based on the results of R&M analysis and FMECA, conduct corrective maintenance analysis. Based on the results of preventive and corrective maintenance analysis, conduct a task, skills, and timeline analysis. Based on the resulting maintenance task requirements, conduct a level of repair analysis in accordance with MIL-STD-1390. Repair Level Analysis performed for the Army and Air Force may utilize an analysis model as specified in the appropriate contract.
 - b. Provide an analytically based MP for the SE item as specified in paragraph 50.2a, except that requriements for Reliability and Maintainability Analysis do not apply. The Government shall request quantitative and qualitative data for reliability and maintainability parameters as required.
 - Provide an analytically based MP as specified in paragraph 50.2b, except that requirements for Servicing Requirements Analyses do not apply.
 - d. Provide an analytically based MP as specified in paragraph 50.2a, except that requirements for Calibration Requirements Analyses do not apply.
 - e. Provide an analytically based MP as specified in paragraph 50.2a, except that requirements for Computer-based Analysis and conduct of Level of Repair Analyses do not apply.
 - f. Provide an analytically based MP as specified in paragraph 50.2a, except as modified by specific requirement shown in the SERD remarks.
 - g. Develop a narrative MP (Part 1 only).
 - h. The LSA and MP are not required.

Table 1 - ACQUISITION TAILORING DATA REQUIRENENTS OF SUPPORT EQUIPMENT

	RTS		.		Ħ						v				
RELATED DID SAMPLING DOCUMENT TITLE	SYS/DE	TESTABILITY ANALYSIS REPORT SUPPORT EQUIPMENT PLAN (SEP)		CONTRACTOR STANDARDIZATION PROGRAN PLAN	STANDARDIZATION STATUS REPORT	SYSTEM/DESIGN TRADE STUDY REPORTS	SUPPORT EQUIPMENT CANDIDATE LIST (SECL)	MANAGENENT PLAN	&SA-070, SUPPORT EQUIPMENT RECOMMENDATION DATA (SERD)	CONTRACTORS PROGRESS STATUS. AND MANAGEMENT REPORT	LOGISTIC ENGINEERING PROGRESS REPORT	MICROFILM OF ENGINEERING DOCUMENTS	NOTICE OF REVISION/SPECIFICA- TION CHANGE NOTICE	ENGLISH LANGUAGE TEST DESIGN DOCUMENT (ELTD)	AIRWORTHINESS QUALIFICATION DATA (HILITARY AIRWORTHINESS STANDARD)
_ QATE	01MDV71	25JAN85 08FEB77	29JAN65 11APR83	020C781	020CT81	UNOV71	02JUNB9	D3HAY85	20JAN87	05SEP86	31301.72	1 SDEC69	01MAY72	23JANB9	01HAY72
PARAGRAPH DOCUMENT	DI-\$-3606	DI-T-7199 DI-A-6102	DI-T-7198 BI-L-7017	DX-E-7098	OI-E-7099	DI~S~3606	DI-ILSS-80040	DI-MGMT-80004	DI-1LSS-8011B	OI-MGMT-80227	UDI-R-27015	DI-E-1111	01-6-1126	0I-MISC-8075)	DĮ-E-1 134
S PR00/0PS	×	×	×	×		×	×	*		_	-	×	a	٥	٥
PHASES FSD	×	×	×	×		×	×	×			×	×			
SITEON	×		×			×	×								
ACQUISITEON CE/D B/V	. ×		×												
SUBJECT	SUPPORT EQUIPMENT REQUIRE— MENTS/ANALYSIS STRATEGY	₹ ₹				SUPPLIES ENIGENEES CHARLES	LIST (SECL)	LSA-070, SUPORT EQUIPHENT RECOMMENDATION DATA (SERD)		MATATIC FULTUED BUT ANACHES	REPORT FSTARITEMENT PROURESS FSTARITEMENT PROUPERSS	TECHNICAL CHARACTERISTICS			
PARAGRAPH	5.4,1	5.4.1.1	5.4.1.2		5.4.4	5.4.4.1		0		5.4.5 6.5.6	5.6.1				

YECHNICAL PERFORMANCE MEASURE-MENT REPORT

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5.6.1

Table 1 - ACQUISITION TAILORING DATA REQUIREMENTS OF SUPPORT EQUIPMENT

SUBJECT	ACQUISITION PHASES CE/D D/V FSD PROD/OPS	PARAGRAPH DOCUMENT DAT	(w ;	RELATED DID SAMPLING DOCUMENT TITLE
		01-5-4057	170CT73	SCIENTIFIC AND TECHNICAL REPORT
		01-E-5325	060CT72	ENGINEERING DRAWINGS (COMMERCIAL)
		DI-E-5423	02MAY77	DESIGN REVIEW DATA PACKAGE
		DI-E-7042	09JAN90	DESIGN APPROVAL REQUEST FOR STANDARD ELECTRONIC MODULES PROGRAM (SEMP)
		01-E-7043	21DEC77	STANDARD ELECTRONIC MODULES PROGRAM (SEMP) SPECIFICATION
		DI-E-7044	21DEC77	STANDARD ELECTRONIC MODULES PROGRAM (SEMP) REQUEST, EXCEPTION
		DI-E-7045	210EC77	REPORT, FAILURE AMALYSIS FOR THE STANDARD ELECTRONIC MODULES PROGRAM (SEMP)
		UOI -E-21342	03JUL74	EQUIPMENT SPECIFICATIONS
		DI-CMAN-8000B	043UMB5	SYSTEM/SEGNENT SPECIFICATION
		DI-MCCR-80017	04JUNB5	SOFTWARE TEST REPORT
		DI-MCCR-80025	04JUNB5	SOFTWARE REQUIREMENTS SPECIFICATION
EM CONSIDERATIONS	×	DI-EMCS-80199	04AUGB6	ELECTROMAGNETIC INTERFERENCE CONTROL PLAN
		DI-EMCS-80200	04AUG86	ELECTROMAGNETIC INTERFERENCE TEST REPORT
		DI-EMCS-80201	04AUGB6	ELECTROMAGNETIC INTERFERENCE TEST PLAN
MASSOCIA LOSTINOS PERIOS	×	DI-MISC-80526	03FEB88	
PAKIS CONTROL TROPOS		DE-MISC-80071	130EC85	PART APPROVAL REQUEST

Table 1 - ACQUISITION TAILORING DATA REQUIREMENTS OF SUPPORT EQUIPMENT

1	RELATED DIO SAMPLING DOCUMENT TITLE	PROGRAM PARTS SELECTION LIST (PPSL)	SYSTEN SAFETY PROGRAM PLAN (SSPP)	SAFETY ASSESSMENT REPORT	HAIVER OR DEVIATION SYSTEM SAFETY REPORT	SYSTEN SAFETY PROGRAM PROGRESS REPORT	SYSTEM SAFETY HAZARD ANALYSIS REPORT	RELIABILITY ALLOCATION REPORT	MAINTAINABILITY DEMONSTRATION PLAN	BURN IN TEST REPORT	RELIABILITY PROGRAM PLAN	RELIABILITY STATUS REPORT	RELIABILITY MATHEMATICAL MODEL(S)	RELIABILITY PREDICTIONS REPORT	SNEAK CIRCUIT ANALYSIS REPORT	ELECTRONICS PARTS/CIRCUTTS TOLERANCE AMALYSIS REPORT	FAILURE MODE, EFFECTS AND CRITICALITY ANALYSIS REPORT	FAILURE MODE, EFFECTS AND CRITICALITY ANALYSIS PLAN	RELIABILITY BLOCK DIAGRAMS AND MATHEMATICAL MODELS REPORT
	ZAPH PATE	130EC8S	20JAN86	203AN96	20JAN86	ZOJANB6	20.3AN86	29AUG73	16APR75	210C777	140CT80	140CT80	140CT80	140CT80)SDEC80)40CT80	14SEP84	06JAN8)	18MOVB1
	PARAGRAPH DOCUMENT DA	01-415C-80072	DI-SAFT-80100	DI-\$AFT-80102	DI-SAFT-80104	DI-SAFT-80105	DI-SAFT-80101	DX-R-2114	01-8-2129	DI-R-7040	DI-R-7079	01-8-7080	01-8-7081	DI-R-7082	DI-R-7083	DI-R-7084	DI-R-7085	D1-R-7086	DI-R-7094
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	55 F		×				×	×											
	ACQUISITION PHASES D/V FSO PROJ		×				×	×											
,	CE/O																		
	SUBJECT		SYSTEM SAFETY PROGRAM PLAN (SSPP)				SYSTEM SAFETY HAZARD ANALYSIS REPORT	RELLABILITY AND MAINTAIN- ABILITY PROGRAM											
	PARAGRAPH		5.6.1.1.4.1				5.6.1.1.4.2	5.6.1.1.5											

Table 1 - ACQUISITION TAILORING DATA REQUIREMENTS OF SUPPORT EQUIPMENT

RELATED DID SAMPLING IE DOCUMENT TXTLE	18NOV81 RELIABILITY PREDICTION AND BOCUMENTATION OF SUPPORTING DATA	03JANB3 HAINTAINABILITY PROGRAM FLAN	03JANB3 MAINTAINABILITY STATUS REPORT	OSJANB3 MAINTAINABILITY MODELING REPORT	03JANB3 MAINTAINABILITY ALLOCATIONS REPORT	03JANB3 MAINTAINABILITY PREDICTIONS REPORT	03JANB3 MAINTAINABILITY ANALYSIS REPORT	03JANB3 MAINTAINABLITY DESIGN CRITERIA PLAN	OBJANBB MAINTAINABILITY DEMONSTRATION TEST PLAN	19JULB3 ENVIRONMENTAL DESIGN CRITERIA AND TEST PLAN	19JULB3 ENVIRONMENTAL TEST REPORT	30JUL75 RELIABILITY STRESS ANALYSIS REPORT	170CTB6 THERMAL SURVEY REPORT	170CTB6 VIBRATION SURVEY REPORT	170CT86 RELIABILITY TEST PLAN	170CT86 RELIABILITY TEST PROCEDURES	170CTB6 RELIABILITY TEST REPORTS	170CTB6 FAILED ITEM ANALYSIS REPORT	170CT86 CORRECTIVE ACTION PLAN
DATE	18NC	037	033/	033	8	033	93	03	8	5	5	Ħ							
PARAGRAPH DOCUMENT	D1-R-7095	DT-R-7103	01-4-7104	DI-R-7106	DI-R-7107	DI-R-7108	01-A-7109	01-R-7110	01-8-7112	DI-R-7125	DI-R-7127	UDI-R-21423	DI-RELI-80247	DI-RELT-80248	01-RELI-80250	DI-RELI-80251	DI-REL1-80252	DI-RELI-80253	01-RELI-80254
ACQUISITION PHASES CE/D D/V FSD PROD/OPS																			

Table 1 - ACQUISITIOM TAILORING DATA REQUIREMENTS OF SUPPORT EQUIPMENT

RELATED DID SAMPLING DOCUMENT VITLE	6 FAILURE SUMMARY AND ANALYSIS REPORT	3 MAINTAINABILITY DENONSTRATION REFORT	IB ENGINEERING CHANGE PROPOSAL	18 ENGINEERING CHANGE PROPOSAL (SHURT FORM)	38 SOFTWARE DEVELOPMENT PLAN	87 CONFIGURATION PANAGEMENT PLAN	72 CONFIGURATION STATUS ACCOUNT— ACCOUNTING REPORTS	77 ENGINEERING DRANINGS AND ASSOCIATED LISTS	BA ASSIGNMENT OF NOMENCLATURE REQUEST	184 ASSIGNHENT OF TYPE EQUIPMENT CODES REQUEST	SB4 CONFIRMATION OF TYPE EQUIPMENT CODES REQUEST	LBG REQUEST FOR CONFIRMATION OF NOMENCLATURE	LBG REQUEST FOR ASSIGMENT OF SERIAL NUMBER AND SERIAL NUMBER PREFIX LETTERS	LBG REQUEST FOR APPROVAL OF IDEN- TIFICATION PLATE DRAWINGS	YBB HILITARY SPECIFICATIONS	B77 SUPPORT EQUIPHENT 11LUSTRA- TIONS (SEI)
PATE	170CT86	03JANB3	15301.88	15301.88	29FEB88	OSAUG87	27.JAN72	31HAY77	15AUGB4	15AUG84	15AUG84	3030186	30JUL86	30301.86	20MAY86	08FEB77
PARAGRAPH DOCUMENT	DI-RELI-80255	DI-R-7113	DI-CHAN-80639	DI-CHAN-80644	DI-HCCR-80030	DI-CHAN-80405	01-E-2039	01-E-7031	UDI-E-21582	UDI-E-21586	UDI-£-21587	D1-CNAN-80194	DI-CHAN-80195	DI-CHAN-80196	DI-SDHP-60001	DI-E-6120
PROD/09'S		×	×		×		×	×	×						×	×
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ACQUISITION CE/D D/V																
THE		DESIGN EXCEPTIONS	ENGINEERING CHANGE PROPOSALS	(ECPS)	CONFIGURATION MANAGENENT (CM)		DESIGN REVIEWS	ENGINEERING DRAWINGS AND	ASSOCIATED LISTS SE HOMENCLATURE						SUCTESTIBLE STATES	END LIEM SPELITICALIONS SUPPORT EQUIPMENT ILLUSTRA- TIONS (SEIS)
	PAKAGKATI	5.6.2	5 6 4.1		5.6.4.4		5.6.5	, v.	5.6.7							5.6.8 5.6.10

Table) - ACQUISITION TAILORING DATA REQUIREMENTS OF SUPPORT EQUIPMENT

PARAGRAPH

5.6.11

RECATED DID SAMPLING DOCUMENT TITLE	PRODUCT ASSURANCE TEST, DEMON- STRATION AND EVALUATION PLAN	QUALITY INSPECTION TEST, DEMONSTRATION AND EVALUATION REPORI	QUALITY ASSURANCE PROGRAM STATUS REPORT	QUALITY ASSURANCE PROGRAM PLAN	INSPECTION AND TEST PLAN	FIRST ARTICLE QUALIFICATION TEST PLAN	TEST REPORTS	TEST REQUIREMENTS DOCUMENT	ACCEPTANCE TEST PROCEDURES	ACCEPTANCE TEST REPORTS	ACCEPTANCE TEST PLAN	TEST, EVALUATION OR DEMONSTRA- TION TEST ARTICLE CONFIGURA- TION (1)	TEST PROCEDURES	FIRST ARTICLE (PREPRODUCTION) TEST REPORT	DESIGN APPROVAL TEST REPORT	SOURCE AND OBJECT PROGRAM LIST	TEST STRATEGY REPORT	NOTIFICATION OF TESTS	SOFTWARE TEST DESCRIPTION
DATE	150EC69	15DEC69	21JANB6	24SEP75	24SEP75	12MAY77	11AUG72	050CT81	18MAY77	18MAY77	25MAR8B	313UL72	03JUL 74	03JUL74	03301.74	020CT81	020CT81	31HAY77	04JUN85
PARAGRAPH DOCUMENT	DI-R-1701	DI-R-1724	DI-QCIC-80112	UDI-R-21374	UDI-R-21375	DI-T-5315	01-1-2072	01-7-2181	01-1-3714	DI-T-372)	DI-QCIC-80553	LDI-5-21060	UDI-T-21347	UDI-T-21349	UDI-T-21350	01-1-21553	UDI-T-21554	01-1-23731	DI-MCCR-80015
PROD/OPS	×					×	×												
PHASES FSD 1	 ×					×	×												
ACQUISITION P	1																		
ACQL CE/D																			
SUBJECT	(QA) PROGRAM					FIRST ARTICLE TEST (FAT)	PRODUCTION ACCEPTANCE TEST AND EVALUATION (PATE)												

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Makan	SUBJECT	ACQUISITION CE/D D/V	PHASES FS0	S PROD/OPS	PARAGRAPH	BA	RELATED DID SAMPLING DOCUMENT TITLE
		! 	t		DI-ATTS-80041	24301.85	TEST REQUIREMENTS DOCUMENT
					DI-ATTS-80282	15JANS7	TEST PROGRAM SET (TPS) AND OPERATIONAL YEST PROGRAM SET (OTPS) ACCEPTANCE TEST PROCEDURES (ATPS)
					DI-ATTS-80283	15JAMB7	TEST PROGRAM SET (TPS) AND OPERATIONAL TEST PROGRAM SET (OTPS) ACCEPTANCE TEST REPORT
					01-ATTS-60284	153ANB7	TEST PROGRAN SET OOCUMENT (TPSD)
5.6.15.2	PRICED SUPPORT EQUIPMENT LISTS (PSELS) AND REVISIONS		×	×	DI-V-6184	08FEB77	PRGPOSED REVISION TO THE SUPPORT EQUIPMENT EXHIBIT (PRSEE)
					9819-A-IO	14APR77	PRICED SUPPORT EQUIPMENT LIST (PSEL)
5.6.16.1	DELIVERY SCHEDULE OF SE HARD-		×	×	01-P-6165	08FEB77	SUPPORT EQUIPMENT DELIVERY SCHEDULE/DELINQUENCY REPORT
5.6.17	HARE AND DATA COST REPORTS		×	×	01-F-6127	08FE877	SE END TIEM FUNDING REPORT (SEE IFR)
5.6.17.1	COST REPORTS.		×	×	01-F-6006	05MOV73	COST DATA SUMMARY REPORT (OD FORM 1921)
5.6.17.2	DD FORM 1921 COST REPORTS,		×	×	01-f-6007	05NDV73	FUNCTIONAL COST HOUR REPORT (DO FORH 1921-1)
,	DD FORM 1921-1		×	×	DI-A-7088	18FEB81	CONFERENCE AGENDA
5.7.2.1.3	SE ILSMI MEETING AGENCY		×	×	DI-A-7089	18FE881	CONFERENCE MINUTES
5.7.2.1.4	SE ILSNI MEETING MINUTES LOGISTIC ENGINEERING PROGRESS		×	×	UDI-R-21015	313VL72	LOGISTIC ENGINEERING PROGRESS REPORT
5.7.2.2	REPORT SE SECTION OF THE END ARTICLE	*	×	×	01-1155-80395	31JUL72	INTEGRATED SUPPORT PLAN
1	dS1		×	×	01-1-7017	11APR83	LOGISTIC SUPPORT ANALYSIS PLAN
5.7.2.3	LSA PRUGRAM		>	×	DI-1LSS-80)14	21FEB86	LOGISTIC SUPPORT ANALYSIS
5.7.2.3.2	SE LSAR DATA (IN LSAR SEQUENCE)		≺	<			RECORD (LSAR) DATA

TABIS I - ACQUISITION TAILORING DATA REQUIREMENTS OF SUPPORT EQUIPHENT

RELATED DID SAMPLING DOCUMENT TITLE	LSA-001, DIRECT ANNUAL MAINTE- NANCE NAM-HOURS REPORT	LSA-002, PERSONNEL AND SKILL SUMMARY REPORT	LSA-003, MAINTENANCE SÜMMARY REPORT	(LSA-004) MAINTENANCE ALLOCA- TION CHART (MAC)	LSA—005, SUPPORT ITEM UTILIZATION SU M ARY REPORT	LSA-006, CRITICAL MAINTEMANCE TASK SUMMARY REPORT	LSA-007, SUPPORT EQUIPMENT REQUIREMENTS	LSA-008, SUPPORT ITENS VALIDA- TION SUMMARY REPORT	LSA-009, SUPPORT ITENS LIST REPORT	LSA-010, PARTS STANDARDIZATION SUMMARY REPORT	LSA-O)1, REQUIREMENTS FOR SPECIAL TRAINING DEVICE REPORT	LSA-012, REQUIREMENTS FOR FACILITY REPORT	LSA-013, SE GROUPING NUMBER UTILIZATION REPORT	LSA-014, TRAINING TASK LIST REPORT	LSA-015, SEQUENTIAL TASK DESCRIPTION REPORT	(LSA-016) PRELIMINARY MAINTE- NANCE ALLOCATION CHART (PMAC)
DATE	23301.84	233/11.84	23JUL64	23JULB4	23301.84	23JULB4	23JUL84	23301.84	23301.84	23JUL64	23JUL84	23301.84	23JUL84	23JULB4	21FEB86	23301.84
PARAGRAPH	01-1-7146 2	DI-L-7147	DI-L-7148	DI-L-7189	DI-L-7149	DZ-L-7150	1512-7-10	DI-L-7152	DI-L-7153	DI-L-7154	01-1-7155	01-1-1156	01-1-7157	DI-L-7158	DI-ILSS-80115	01-1-10
S PROD/OPS												·				
ACQUISIVION PHASES CE/D D/V FSD P	 															

TABLE 1 - ACQUISTTION TAILORING DATA REQUIRENENTS OF SUPPORT EQUIPMENT

- RELATED OID SAMPLING GATE DOCUMENT TITLE	LSA-019 MAINTENANCE TASK ANALYSIS VALIDATION SUMMARY REPORT	(LSA-020) MAINTENANCE ALLOCA- TION CHART (MAC)	LSA-023, MAINTENANCE PLAN SUMARY REPORT	LSA-024, MAINTENANCE PLAN REPORT	LSA-027, FAILURE/MAINTENANCE RATE SUMMARY REPORT	LSA-029, REPAIR PARTS AND SPECIAL TOOLS LIST (RPSTL)	(LSA-032) PROVISIONING AND OTHER PREPROCUREMENT SCREENING DATA	(LSA-036) PROVISIONING PARTS LIST	(LSA-036) SHORT FORM PRO- VISIONING PARTS LIST	(LSA-036) LONG LEAD TIME ITEMS LIST	(LSA-036) REPAIRABLE ITEMS LIST	(LSA-036) INTERIM SUPPORT ITEMS (LIST	(LSA-036) TOOLS AND TEST EQUIPMENT LIST	(LSA-036) COMMON AND BULK ITENS LIST		(LSA-036) POST CONFERENCE LIST
	23301.84	23JULB4	23301.64	203AW87	233141.84	23301.84	06AUG84	06AUG84	07AUG84	07AVG84	D6AUG84	06AUG84	06AUGB4	06AUGB4	06AUG84	DSAUG84
PARAGRAPH	DI-L-7163	DI-L-7189	DI-L-7164	01-11.55-80119	DI-L-7168	DI-L-7168	DI-V-7016	DI-V-7002	DI-V-7003	DI-V-7004	DI-V-7005	900Z-N-IQ	01-1-1007	DI-L-7008	DI-L-7009	01-1-1011
ES PROD/OPS																
GN PHASES																
ACQUISITION CE/D D/V															•	

TABLE 1 - ACQUESITION TAILORING DATA REQUIREMENTS OF SUPPORT EQUIPMENT

RELATED DID SAMPLING DOCUMENT TITLE	(LSA-D36) SYSTEM CONFIGURATION PROVISIONING LIST	LSA-040, COMPONENT OF END ITEM (COEI) LIST REPORT	LSA-041, BASIC ISSUE ITEMS (BII) LIST REPORT	LSA-042, ADDITIONAL AUTHORIZA- TION LIST (AAL) REPORT	LSA-043, EXPENDABLE/OURABLE SUPPLIES AND MATERIALS LIST (ESML) REPORT	LSA-050, RELIABILITY CENTERED MAINTENANCE (RCN) SUMMARY REPORT	LSA-OS1, RELIABILITY SUMMARY, REDESIGN REPORT	LSA-D52, CRITICALITY ANALYSIS SUMMARY REPORT	LSA-053, MAINTAINABILITY ANALYSIS SUMMARY - LEVEL OF REPAIR REPORT	LSA-O54, FAILURE MODE ANALYSIS SUMMARY REPORT	LSA-055, FAILURE MODE DETECTION SUMMARY REPORT	LSA-060, LSA CONTROL NUMBER (LCN) NASTER FILE	LSA-061, PARTS MASTER FILE	LSA-070, SUPPORT EQUIPMENT RECOMMENDATION DATA	LSA-072, TEST MEASUREMENT AND DIAGNOSTIC EQUIPMENT (TMDE) REQUIREMENTS SUMMARY REPORT
A RELAY	06AUGB4	23,701.84	23JUL84	23JULB4	23JULB4	23JUL64	23301.84	23.301.84	23JULB4	23.784	23JULB4	21FEB86	21FEBB6	203AN87	20.JAN87
PARAGRAPH DOCUMENT	01-1-7192 0	DI-L-7170 2	5 1717-1-10	01-1-7172 2	DI-L-7173	DI-L-7174	DI-L-7175	DI-C-7176	DI-L-7177	DI-L-7178	DI-L-7179	01-1155-80116	11108-5571-10	DI-1LSS-8011B	DI-1LSS-8028B
N PHASES FSD PROD/OPS															
IXTEON D/V	}									,					

	RELATED DID SAMPLING DATE DOCUMENT TITLE	LSA-077, DEPOT MAINTENANCE INTERSERVICE DATA SUMMARY	(LSA-151) PROVISIONING PARTS LIST INDEX	LOR (LEVEL OF REPAIR) PROGRAM PLAN	LOR (LEVEL OF REPAIR) ANALYSIS REPORT	LOR (LEVEL OF REPAIR) INPUT DATA REPORT	FAILURE MODE, EFFECTS, AND CRITICALITY ANALYSIS PLAN	FAILURE MODE, EFFECTS, AND CRITICALITY ANALYSIS REPORT	CALIBRATION MEASUREMENT REQUIREMENTS SUMMARY (CMRS)	TASK AND SKILL ANALYSIS REPORT	TIME LINE SHEETS	LSA-024, MAINTENANCE PLAN REPORT	ASSIGNNENT OF TYPE EQUIPMENT CODES REQUEST	CONFIRMATION OF TYPE EQUIPMENT CODES REQUEST	HORK UNIT CODE ITEM LISTING		4 PROVISIONING AND OTHER PREPRO- CUREMENT SCREENING DATA
EQUIPMENT	- RELA)	20JANB7	06AUG84	05SEP75	05SEP75	05SEP75	063ANB1)45EPB4	31DEC86	18FEB81	0114077	20JAN97	15AUG84	15AUG84	25JUL72	30APR71	06AUGB4
ENTS OF SUPPORT	PARAGRAPH	DI-11.55-80291	6614-7-10	DI-L-2084	DI-L-2085	DI-L-2155	01-8-7086	DI-R-7085	DI-QCIC-80278	01-14-7068	01-5-3608	01-165-80119	UDI-E-21586	UDI-E-21587	DI-M-2070	01-4-6180	DI-V-7016
REQUIREM	PROD /OPS			×			×	×	,×	×	:	×	×		×	×	
- ACQUISITION TALLORING DATA REQUIREMENTS OF SUPPORT EQUIPMENT	ACQUISITION PHASES CE/D D/V FSD P			×			×	×	*	•	<	×	×		×	×	
Table 1 - ACQU	. 1			(O) I daysta an inch	LEVEL OF KEFAIR (LCC.) ANALYSIS		•	FWECA PLAN	FRECA REPORT	REQUIREMENTS SUMMARY (CMRS)	TASK AND SKILLS AMALYSIS		SE NP	TYPE EQUIPMENT COST (15.5) REPORT	HELL SHARE WHILE SHARE	LISTING LISTING LISTING	
		PARAGRAPH	-		5,7,2.3.3			5,7.2.3.4	5.7.2.3.5	5.7.2.3.6	5.7.2.3.7		5.7.2.4	5.7.2.5		5.7.2.6.1	5.7.2.7

Table I - ACQUISITION TAILORING DATA REQUIREMENTS OF SUPPORT EQUIPMENT

RELATED DID SAMPLING TE DOCUMENT TYTLE	140CT83 CONTRACTOR TECHNICAL INFORMA- TION CODING OF REPLENISHMENT PARTS	140CT83 TECHNICAL DATA IDENTIFICATION CHECK LIST	OGFEB75 DISPOSITION OF GOVERNMENT- FURNISHED EQUIPMENT REQUEST	21FEB86 LOGISTIC SUPPORT ANALYSIS RECORD (LSAR) DATA	30APR74 SUPPORT MATERIAL LIST (SML), PREOPERATIONAL (INTERIM)	30APR74 CONSUMPTION/USAGE REPORT	31JUL72 TRANSITION STATUS REPORT	30APR75 RESIDUAL ASSET REPORT, PRE- OPERATIONAL (INTERIM)	DEAUGH INTERIM SUPPORT ITEMS LIST	MOTE: PTD IS AVAILABLE THROUGH THE LSA-036 REPORT	OGAUG84 PROVISIONING PARTS LIST INDEX	O)FEBBS SUPPLEMENTARY PROVISIONING TECHNICAL DOCUMENTATION	OIFEBSS MANUFACTURER'S COMMERICAL MANUAL (PROVISIONING)	10SEP85 STANDARD AND MODIFIED HAND TOOLS LIST	20JANB7 LSA-074, SE TOOL LIST	13SEPBS MASTER INDEX OF REPAIRABLES AND REPAIRABLE PROJECTION	060CTB7 SUPPORT EQUIPMENT INSTALLATION DATA (SEID)
H DATE	140	140	96F		Š	307	33	30/	9	•	90	6	10				
PARAGRAPH DOCUMENT	01-P-7128	01-6-7129	UOI-A-22054	01-1155-80114	UDI-V-21042	UD1-V-21043	UDI-V-21044	UDI-V-21045	01-4-7006	l	DI-V-7193	DI-V-7000	DI-V-7001	01-1155-80045	01-1LSS-80289	DI-1LSS-80049	DI-ILSS-80454
PROD/OPS					×	×	×	×		×	×	×	×	×		×	*
表 S					×	×	×	×		×	×	×	×	×		×	×
ACQUISITION PHASES CE/D D/V FSD F													_				
SUBJECT					SUPPORT MATERIAL LIST (SML)	TOPEN NEVER DEPORT	SAMETTAN CTATIC BERORT	RESIDUAL ASSET PREDPERATIONAL	(INIEKIN) KETON	PROVISIONING TECHNICAL	DOCUMENTATION (PIU) PROVISIONING PARTS LEST INDEX	23	TECHNICAL DOCUMENTATION (SPID) MANUFACTURER'S COMMERCIAL	MANUAL (FRUVISIONAM) LIST OF STANDARD/HODIFIED	HAND IGOLS (LOWIN)	MASTER INDEX OF REPAIRABLES	SE INSTALLATION DATA (SEID)
Paragraph					5.7.2.7.1	1	5.7.2.7.2	5.7.2.7.3		5.7.2.7.6	5.7.2.7.7	5.7.2.7.8	5.7.2.7.9	5.7.2.7.10		5.7.2.8	5.7.2.10

Table 1 - ACQUISITION TAILORING DATA REQUIREMENTS OF SUPPORT EQUIPMENT

PARAGRAPH

OATE DOCUMENT TITLE	FACILITIES REQUIREMENTS FOR TYPICAL SHOREBASED AND SHIP- BOARD SITES DOCUMENT	SITE EVALUATION REPORT	DATA PACKAGE, SUPPORT SITE ACTIVATIOM	MANUAL, TECHNICAL; QUALITY ASSURANCE PROGRAM PLAN	MANUAL, TECHNICAL; VALIDATION PLAN	MANUAL, YECHNICAL; VALIDATION CERTIFICATION	MANUAL, TECHNICAL; EVALUATION RECORD	MANUAL, TECHNICAL; VERIFICA- TION PLAN	MANUAL, TECHNICAL; VERIFICA- TION PLANNING	MANUAL, TECHNICAL; VERIFICA- TION SEQUENCE CONTROL CHART	MANUAL, TECHNICAL; VERIFICA— TION INCORPORATION CERTIFICATION	TECHNICAL MANUAL PLAN (TMP)	TECHNICAL MANUAL STATUS AND SCHEDULES	TECHNICAL MANUAL DATA RESEARCH. AND ANALYSIS SOURCE DATA	DIRECTIVE, TECHNICAL (AERONAUTICAL)
- RELA	31,301,72	31301.72	3130172	28AVG84	28AUG94	28AUG84	28AUG84	28AU684	28AU684	28AUG84	28AUG84	30APR71	30APR71	30APR71	18MAR77
PARAGRAPH DOCUMENT	UDI-P-21037 3	UDI-P-21038 3	UDI-P-21040 3	DI-M-2194 2	01-M-2195	01-M-2196	01-4-2197	DI-H-2198	6612 -N− 10	DI-N-2200	DI-₩-2201	DI-M-6154	DI-H-6155	8519 -M -10	DI-E-21335
PROD/OPS	×	×		*											
FSD	×	×		×											
ACQUISITION PHASES CE/D D/V FSD															
ACQ CE/D															
SUBJECT	FACILITIES REQUIREMENTS DOCU-	CONTRACTOR OF BADT	SITE EVALUATION REPORT	TECHNICAL MAMIALS (TMs)											

5.7.2.12

5.7.2.11.2

5.7.2.11.1

Table 1 - ACQUISITION TAILORING DATA REQUIREMENTS OF SUPPORT EQUIPMENT

RELATED BID SAMPLING DOCUMENT VITLE	DEPOT TECHNICAL DATA CONTROL MANUALS	SOFTWARE STANDARDS AND PROCEDURES HANUAL	PLANNED MAINTENANCE SYSTEM MAINTEMANCE REQUIREMENT CARD	CALIBRATION AND MEASUREMENT REQUIREMENTS SUMMARY (CMRS)	TECHNICAL MANUAL STATUS REPORT	REPORT OF TECHNICAL MAMUAL COSTS	SUPPORT EQUIPMENT DEPOT LEVEL REWORK STANDARD	TRAINING AND TRAINING EQUIPMENT PLAN	TRAINING COURSE PROPOSAL				AUDIO VISUAL AIDS, MASTER RE- PRODUCIBLES, AND REVIEW COPIES	TRAINING COURSES	.1 TESTS FOR MEASURENENT OF STUDENT ACHIEVEMENT	IS STUDENT AND TRAINING COURSE EVALUATION FORMS
OATE	14BECB1	04JUN85	12FEB85	31DEC86	30JUN72	30APR71	14DEC81	18FEBB1	16FEB81	18FEB81	NOFEB81	1865891	18FEB81		18FEB81	10SEPE
PARAGRAPH	DI-#-30430	DI-MCCR-80011	DI-L-2215	DI-QCIC-80278	DI-A-2052	DI-F-6126	DI-L-21575	DI-H-7066	7907 H 70	0901-H-10	D1-H-7070	DI-H-7071	01-14-7072		DI-H-1074	DI-1LSS-80046 10SEP85
S PROD/OPS			×	×	×	×	×	×	3	< ×	×	×	×		×	*
ACQUISITION PHASES CE/D 0/V FS0	1		*	×	*	: ×	*	×	;	× ×	×	×	×	4	×	×
SUBJECT			MATHTENANCE REQUIREMENTS CARDS	(MRCS) INSTRUMENT CALIBRATION	PROCEDURES	TH STATUS REPORT REPORT REPORT OF TH COSTS	REWORK STANDARD	TRAINING AND TRAINING EQUIP-	MENT PLAN (TTEP)	TRAINING COURSE PROPOSALS	OUTLINES OUTLINES	TRAINING COURSES FRAINING COURSES CTIMENT'S TRAINING COURSE	GUIDE GUIDE AND WASTER RE-	PRODUCTBLES, AND REVIEW COPIES FOR TRAINING EQUIPMENT AND TRAINING COMPSE	TESTS TO MEASURE STUDENT	ACHIEVEMENT STUDENT AND TRAINING COURSE EVALUATION FORMS
	PARAGRAFI			2.71.21.6	3.7.5	5.7.2.12.4	5.7.2.14	5 1 2 15 1		5.7.2.15.2	5,7.2.15.3	5,7,2,15,4	5.7.2.15.6		5.7.2.15.7	5.7.2.15.8

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Table 1 - ACQUISITION TAILORING DATA REQUIREMENTS OF SUPPORT EQUIPMENT

PARAGRAPH RELATED DID SAMPLING CUMENT DATE DOCUMENT TITLE	TRACTOR ENGINEERING AND	TECHNICAL SERVICES (CETS) PLAN	CETS (CONTRACTOR ENGINEERING AND TECHNICAL SERVICES) PLAN REQUIREMENTS	CONTRACTOR ENGINEERING AND TECHNICAL SERVICES (CETS) REPORT	TRANSPORTABILLTY REPORT	16JUL84 PACKAGING KIT CONTENTS LIST	PRESERVATION AND PACKING DATA	SPECTAL PACKAGING INSTRUCTIONS (SPI)	PHASED SUPPORT PLAN	SUPPORT EQUIPMENT DELIVERY	CHEDULE/DELINGSTON
RELATED		240EC/4	31JUL72 CE AN RE	D7APR76 CO TE RE	07DEC72 TH	163UL84 P	21MAY86	21MAY86	08JUNB7	08FEB77	
PARAGRAPH DOCUMENT	!	DI-A-6101	UDIH-21018	UDI-E-23127	01-1-3327	01-1-1137	01-PACK-80120	DI-PACK-80121 21MAY86	DI-ILSS-80037	01-8-6165	
PR00/0PS		×			>	:			×	: >	<
ACQUISITION PHASES		×			,	٢			>	ć :	×
	SUBJECT	CONTRACTOR ENGINEERING AND				PACKAGING, HANDLING, STORAGE	REQUIREMENTS			PHASED SUPPORT PLAN	ILS ITEM DELIVERY
	PARAGRAPH	5.7.2.16				5.7.2.17		•		5.7.2.18	5.7.3